



Hamilton Township (Mercer County)

Stormwater Mitigation Plan

Developed by the Rutgers Cooperative Extension Water Resources Program

Funded by Hamilton Township, Mercer County, New Jersey

December 21, 2018

Table of Contents

Table of Contents 2

Acknowledgements 3

Background on Stormwater Mitigation Planning 4

Introduction 6

Methodology 6

Selecting a Mitigation Project to Offset a Deficit 7

 Stormwater Quantity Considerations 9

 Stormwater Quality Considerations 10

 Ground Water Recharge Considerations 12

Nonstructural Stormwater Management Strategies 13

Administrative Requirements 13

List of Figures

- Figure 1 - Land Use in Hamilton Township
- Figure 2 - Types of Urban Land Uses in Hamilton Township
- Figure 3 - Subwatershed Map of Hamilton Township

List of Tables

- Table 1 - Aerial Loading Coefficients

List of Attachments

- Attachment 1 - Potential Stormwater Mitigation Project Sites by Subwatershed
- Attachment 2 - Summary of Existing Conditions
- Attachment 3 - Summary of Proposed Green Infrastructure Practices
- Attachment 4 - Nonstructural Stormwater Management Strategies and
How to Demonstrate “Maximum Extent Practicable”

Acknowledgements

The *Hamilton Township (Mercer County) Stormwater Mitigation Plan* has been produced by the **Rutgers Cooperative Extension Water Resources Program**.

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.

Background on Stormwater Mitigation Planning¹

The Stormwater Management rules, N.J.A.C. 7:8, establish design and performance standards for stormwater management that address water quality, water quantity and groundwater recharge. These standards are to be met on the site of a proposed development and, to the maximum extent practicable, are to use nonstructural stormwater management strategies. The New Jersey Department of Environmental Protection (NJDEP) recognized that situations may arise in which the design and performance standards may be impossible to meet on the site of a proposed project due to site constraints. Therefore, at N.J.A.C. 7:8-4, the Stormwater Management rules allow a municipality to develop a mitigation plan to accommodate these special cases.

A municipal mitigation plan is an optional element of a Municipal Stormwater Management Plan, but is required for a municipality to grant a variance or exemption to the design and performance standards for stormwater runoff quality, stormwater runoff quantity, and ground water recharge. A municipal mitigation plan must identify the measures necessary to offset the deficit created with respect to the design and performance standard(s) that would result from the granting of a variance or exemption at a project site. The plan must ensure that the mitigation is completed in the drainage area and for the performance standard(s) for which the variance or exemption was granted for a project. To be in effect, a municipal mitigation plan must be adopted into the municipal stormwater control ordinance and approved by the county review agency.

The existence of a mitigation plan does not supersede the requirements that an applicant meet the design and performance standards for ground water recharge, stormwater quantity, and stormwater quality on-site to the maximum extent practicable and that the standards be met using non-structural techniques to the maximum extent practicable. Instead, it allows municipalities, in limited circumstances, to waive strict compliance with one or more of the performance standards, where full compliance cannot reasonably be accommodated on-site, provided there is mitigation of the effect of the deficient compliance provided in accordance with an approved mitigation plan. The test of reasonable accommodation includes reducing the size, scale, or layout of the proposed

¹ The background text has been adapted from “Guidance for the Development of Municipal Mitigation Plans – February 2006.”

project to meet the design and performance standards on-site and thereby avoid the need to seek a variance or exemption. A waiver cannot be granted if the project requesting a waiver or exemption would result in a localized adverse impact or create a compliance deficit that cannot be compensated for by offsite mitigation.

Subject to the caveats for applicability and consistent with the provisions of an approved mitigation plan, a municipality may waive one or more of the design and performance standards for projects reviewed under the Municipal Land Use Law (MLUL) or for projects undertaken by the municipality that are not subject to MLUL. Waivers for linear development projects must be evaluated using the requirements under N.J.A.C. 7:8-5.2(e), which includes the requirement to address mitigation for the performance standard for which strict compliance was not obtained. Where the NJDEP issues a permit that includes a stormwater management review and an associated waiver under the provisions of the specific permit, the municipality is not required to further consider the project under the provisions of the municipal mitigation plan. However, the municipality may choose to require mitigation for projects receiving a waiver from the NJDEP.

A mitigation plan can also be used to identify existing problems resulting from current stormwater management practices and the means to address them proactively. In addition, where current stormwater management practices contribute to water quality problems or designated use impairments, total maximum daily load (TMDL)² implementation plans can target problem areas and prioritize funding available for watershed restoration. Further, measures to address existing stormwater management problems can become a regulatory requirement when they are identified as “additional measures” in a municipal stormwater permit. “Additional measures” become a permit requirement when they are identified in an adopted TMDL or water quality management plan amendment.

² TMDLs are developed for impaired waterways in the state. They identify and quantify the impairment, and determine the pollutant load reductions needed to achieve water quality criteria.

Introduction

Located in Mercer County in central New Jersey, Hamilton Township covers over 40 square miles east of the City of Trenton. Hamilton Township is dominated by urban land uses (Figure 1). Over half of the municipality's land area, approximately 58%, is considered urban. A large portion of the urban land use, 39.7%, is residential, single unit, medium density development (Figure 2). Based upon the 2007 NJDEP land use/land cover data, Hamilton Township has impervious cover totaling 22.7%. In many regions of the country, as little as 10% watershed impervious cover has been linked to stream degradation, with the degradation becoming more severe as impervious cover increases³. Hamilton Township has made a commitment to better manage stormwater to reduce the impact to water quality and decrease localized flooding.

Methodology

Hamilton Township contains portions of eight watersheds (Figure 3). For this plan, a series of potential mitigation projects have been identified in each of these watersheds. Initially, aerial imagery was used to identify potential project sites with extensive areas of impervious cover. Field visits were made to each of these sites to determine the viability for reducing impervious cover or disconnecting impervious surfaces from draining directly to the municipal storm sewer system or local waterway. During these site visits, appropriate stormwater best management practices (BMPs) were identified. Sites that already have stormwater BMPs were eliminated from consideration.

For each potential mitigation project site, land use specific aerial loading coefficients were used to determine the annual runoff loads for total phosphorus (TP), total nitrogen (TN), and total suspended solids (TSS) (Table 1). These are the same aerial loading coefficients that NJDEP uses in developing TMDLs for impaired waterways in the state. The percentage of impervious cover for each site was extracted using the 2007 NJDEP land use/land cover GIS dataset. For impervious

³ Schueler, T. 1994. The Importance of Imperviousness. *Watershed Protection Techniques* 1(3): 100-111.

areas, runoff volumes were calculated for the 2-year design storm (3.3 inches of rain) and for the annual rainfall total of 44 inches.

For each potential mitigation project site, drainage areas were determined for suggested BMPs. Preliminary runoff volumes were then calculated for each BMP opportunity to provide a preliminary order-of-magnitude understanding of the stormwater mitigation potential at each site. BMPs for stormwater mitigation need to be designed to manage the 2-year design storm, enabling these BMPs to capture 95% of the annual rainfall. The reduction in TSS loading was also calculated for each drainage area for each BMP opportunity using the aerial loading coefficients in Table 1. The maximum volume reduction in stormwater runoff for each BMP for a storm was determined by calculating the volume of runoff captured from the 2-year design storm. For each BMP, the peak discharge reduction potential was determined through hydrologic modeling in HydroCAD. For each BMP a cost estimate is provided. These costs were determined based upon the square footage of the BMP and the real cost of BMP implementation in New Jersey.

The potential mitigation project sites identified in this plan provide examples of the types of stormwater mitigation possible in Hamilton Township. The list is not all inclusive and applicants should review this list with Township officials prior to selecting a mitigation project site. The calculations provided and BMP opportunities identified are preliminary and will require further detailed evaluation and design. Applicants looking to conduct mitigation on these sites or other sites will be responsible for verifying all conditions, completing design plans in conformance with state and municipal guidance, obtaining property owner permission, and determining requirements for operations and maintenance.

Selecting a Mitigation Project to Offset a Deficit

Attachment 1 contains potential mitigation project sites by watershed. Each project identifies a BMP opportunity and an approximate drainage area that this BMP can treat. For example, a project site may identify bioretention as a BMP opportunity and includes an estimated drainage area to be managed by the BMP. A mitigation project may include all or a portion of a site as needed to satisfy the stormwater management deficit. For each potential mitigation project site, estimates

for the recharge potential, TSS removal potential, maximum volume reduction potential per storm, and the peak reduction potential are provided. This should enable an applicant to determine if a potential mitigation project would adequately offset the stormwater management deficit. Finally, estimated costs are provided.

An alternative to selecting a project from those provided in this plan is for the applicant to identify a different project. All the information described above must be provided for the project along with the specific information discussed below.

Whether a project is selected from those included in this plan or a different project is identified by the applicant, an applicant must provide specific information to demonstrate that an appropriate mitigation project has been selected to offset the deficit as described below. An assessment of the impact that would result from the requested deviation from full compliance with the stormwater management rules in the drainage area affected by the proposed project is required. For example, a waiver for stormwater quantity requirements must focus on the impacts of increased runoff on flooding, considering both quantity and location. Stormwater quality mitigation must aim to prevent an increase in pollutant load to the waterbodies that would be affected by the waiver/exemption. Ground water recharge mitigation must seek to maintain the baseflow and aquifer recharge in the area that would be affected by the waiver/exemption. For the purpose of this discussion, the term “sensitive receptor” is used to refer to a specific area or feature that would be sensitive to the impact assessed above.

Selection of an appropriate mitigation project for a requested waiver/exemption must adhere to the following requirements:

1. The project must be within the same area that would contribute to the receptor impacted by the project. *Note that depending on the specific performance standard waived, the sensitive receptor and/or the contributory area to that receptor may be different.* If there are no specific sensitive receptors that would be impacted as the result of the grant of the waiver, then the location of the mitigation project can be located anywhere within the

municipality and should be selected to provide the most benefit relative to an existing stormwater problem in the same category (quality, quantity, or recharge).

2. Legal authorization must be obtained to construct the project at the location selected. This includes maintenance and any access needs for the project in the future. It is important to note that legal authorization has **not** been obtained for the potential projects included in Attachment 1 of this plan. The applicant must obtain this authorization.
3. The project should be close to the location of the original project, and if possible, be located upstream at a similar distance from the identified sensitive receptor. This distance should not be based on actual location, but on a similar hydraulic distance to the sensitive receptor. For example, if the project for which a waiver is obtained discharges to a tributary, but the closest location discharges to the main branch, it may be more beneficial to identify a location discharging to the same tributary.
4. For ease of administration, if sensitive receptors are addressed, it is preferable to have one location that addresses any and all of the performance standards waived, rather than one location for each performance standard.
5. It must be demonstrated that implementation of the mitigation project will result in no adverse impacts to other properties.
6. Mitigation projects that address stormwater runoff quantity can provide storage for proposed increases in runoff volume, as opposed to a direct peak flow reduction.

Additional considerations are discussed below for each of the stormwater management requirements.

Stormwater Quantity Considerations

Increased stormwater runoff volume from new development can cause damages to property and habitat due to increased flood elevations and/or flood velocities. Mitigation project areas can include locations that will provide for additional storage and slower release of excess stormwater. Mitigation of stormwater quantity can be accomplished by increasing flood storage areas along the waterway, creating new BMPs to control previously uncontrolled runoff or by retrofitting existing stormwater structures to decrease volume and peak runoff.

In areas adjacent to the stream, a hydrologic and hydraulic analysis can be performed to determine if increasing storage capacity would offset the additional volume of runoff and associated peak increase from sites upstream of the storage area. Increases in the storage capacity of an existing structure, such as upstream of a bridge or culvert, can also be considered provided that it is demonstrated that such an increase does not exacerbate flooding at other areas.

Note that work in regulated areas, such as floodplains and wetlands must be performed in accordance with applicable regulations such as the Flood Hazard Area Control Act Rules and the Freshwater Wetland Act Rules. Also, many areas of open space in New Jersey have received funding from the Department's Green Acres Program, and many of those encumbered lands have restrictions placed on them as a result of that funding. Any and all restrictions placed on these lands must be investigated by the municipality before these areas can be utilized for mitigation to ensure that there are no conflicts.

Some examples of areas or features sensitive to changes with regard to flooding include:

- Culverts and bridges—these features may constrict flow and cause flooding or may provide storage that, if lost, would cause downstream flooding problems
- Property subject to flooding—areas of concern include those where there is historical evidence of recurrent problems, particularly if exacerbated over time because of increasing impervious surface in the contributing watershed
- Eroding/widening stream banks or channels—particularly if due to changes in hydrology due to effects of development
- Category One waters—flooding effects could alter habitat that was the basis for the designation
- Wetlands—changes in hydrology can affect the viability of wetlands, either by increasing or decreasing volumes and velocities of water discharging to the wetlands

Stormwater Quality Considerations

Stormwater quality is regulated for the purpose of minimizing/preventing nonpoint source pollution from reaching the waterway. Mitigation for stormwater quality can be achieved either by

directing the runoff from the water quality design storm into a natural area where it can be filtered and/or infiltrated into the ground, by constructing a new BMP to intercept previously untreated runoff or by retrofitting existing stormwater systems that previously did not provide sufficiently for water quality.

Existing forested and other vegetated non-wetland areas also can be used as a water quality mitigation area if runoff is discharged as sheet flow through the area in a non-erosive manner and if the vegetated area is restricted from future development. A discussion of the appropriate widths for these vegetative filters is provided in Chapter 9 of the New Jersey Stormwater Best Management Practices Manual (BMP Manual).

If a mitigation project cannot be identified that would compensate for a waiver related to water quality, and provided the project requiring a waiver would not result in a measurable change in water quality relative to TSS and nutrients, the mitigation project could be designed to address another parameter of concern in the watershed (as indicated by an impairment listing and/or an adopted TMDL) for which stormwater is a source, such as fecal coliform.

Some examples of areas or features sensitive to water quality changes include:

- Trout associated waters—chemical pollutants and temperature effects can diminish viability of populations
- Lakes, ponds or other impoundments—these waterways are sensitive to the addition of nutrients
- Threatened and endangered species or their habitats—sensitive to both quality and quantity changes
- Drinking water supplies—adverse effects on quality can increase the cost of treatment or threaten the use
- Category One waters—an issue where quality was the basis of the designation
- Waterways with a water quality or use impairment—deterioration of quality in an impaired waterway will increase the cost and challenge of restoration

Ground Water Recharge Considerations

Recharge is regulated to maintain the availability of ground water as a water supply source as well as to provide a stable source of baseflow in streams.

There are two requirements associated with the recharge standard. The first is that 100 percent of the site's average annual pre-developed ground water recharge volume be maintained after development, and the second is that 100 percent of the difference between the site's pre- and post-development 2-year runoff volumes be infiltrated. To mitigate for ground water recharge design requirements, either computational method can be utilized to determine the volume lost that needs to be provided by the mitigation project.

One method to accomplish ground water recharge mitigation is to discharge runoff as sheet flow across a vegetated area to allow for the infiltration of runoff. It should be noted that, if this measure is used, calculating compliance with the recharge standard is limited to the 2-year storm standard, given existing methods.

Some examples of areas or features sensitive to ground water recharge changes include:

- Springs, seeps, wetlands, white cedar swamps—sensitive to changes in ground water level/hydrology
- Threatened and endangered species or their habitats—some are sensitive to changes in ambient ground water levels
- Streams with low base flow or passing flow requirements—would be particularly sensitive to changes in hydrology
- Aquifer recharge zones—loss of recharge in these areas can adversely affect ground water supply
- Category One waters—loss of base flow can affect many of the bases for designation

Nonstructural Stormwater Management Strategies

All applicants are required to meet the design and performance standards in the Stormwater Management rules to the maximum extent practicable by incorporating nonstructural stormwater management strategies into the design. The applicant is required to identify the nonstructural strategies incorporated into the design of the project. If the applicant contends that it is not feasible for engineering, environmental, or safety reasons to incorporate any nonstructural stormwater management strategies, the applicant shall identify the strategy and provide a basis for the contention. If the applicant cannot satisfy the “maximum extent practicable⁴” requirement or cannot provide an engineering, environmental, or safety reason for not incorporating a nonstructural strategy into the design, a waiver may be granted, and this deficit can be offset by providing the Township funding to implement one of the following programs:

- Downspout disconnection program for homeowners
- Rain garden rebate program for homeowners
- Rain barrel distribution program
- *Stormwater Management in Your Schoolyard* educational program
- Water conservation program for businesses and homeowners
- Stormwater basin maintenance, repair, and improvement

The amount of funding required for the nonstructural stormwater management strategies deficit offset will be determined by the Township.

Administrative Requirements

Hamilton Township has a Tier A NJPDES Municipal Stormwater General Permit and is required to file an annual report to demonstrate continuing compliance with permit requirements. The Township will indicate in the annual report form whether any variances or exemptions from stormwater management standards have been given. When submitting the annual report as

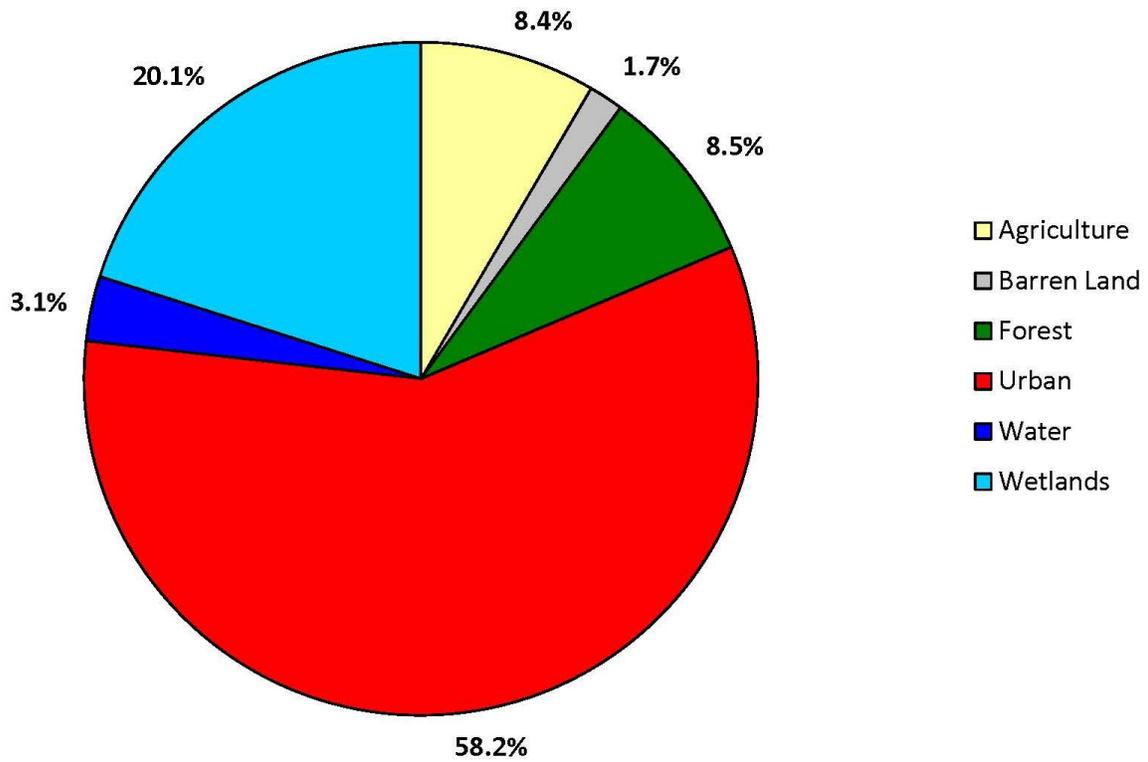
⁴ The nine nonstructural management strategies are listed in Attachment 2 along with the requirements to demonstrate the “maximum extent practical” requirement.

required by the NJPDES permit, the Township will provide an annual submission of its variances, exemptions, and related mitigation projects to the NJDEP. This annual report to NJDEP will include both projects reviewed by the municipality under the MLUL as well as the municipality's own projects that are unable to fully comply with design and performance standards. The following information will be provided for each waiver granted from the performance standard(s).

- Impact from noncompliance: A table quantifying what would be required for the project to achieve the standards, the extent to which this value will be achieved on-site and the extent to which the value must be mitigated off-site will be provided.
- Narrative and supporting information regarding the need for the waiver including:
 - The waiver cannot be due to a condition created by the applicant. If the applicant can comply with the Stormwater Management rules through a reduction in the scope of the project, the applicant has created the condition and a waiver **cannot** be issued. The Township will provide information that demonstrates that the need for a waiver is not created by the applicant.
 - Provide a discussion and supporting documentation of the site conditions peculiar to the subject property that prevent the construction of a stormwater management facility that would achieve full compliance with the design and performance standards. Site conditions may include soil type, the presence of karst geology, acid soils, a high groundwater table, unique conditions that would create an unsafe design, as well as conditions that may provide a detrimental impact to public health, welfare, and safety.
 - Demonstration that the grant of the requested waiver/exemption would not result in an adverse impact that would not be compensated for by offsite mitigation.
- Sensitive Receptor: The sensitive receptor(s) related to the performance standard from which a waiver is sought will be identified. Information will be provided that demonstrates that the mitigation site contributes to the same sensitive receptor.

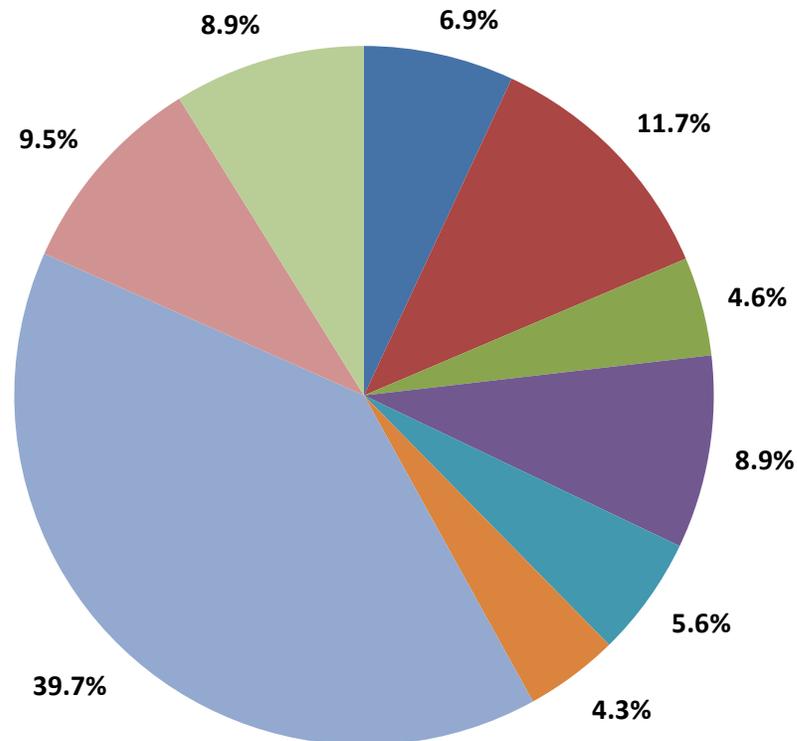
- Design of the Mitigation Project: Design details of the mitigation project will be provided. This includes, but is not limited to, drawings, calculations, and other information needed to evaluate the mitigation project.
- Responsible Party: Information on the party or parties responsible for the construction and the maintenance of the mitigation project will be provided. Documentation will be provided to demonstrate that the responsible party is aware of, has authority to, and accepts the responsibility for construction and maintenance. Under no circumstance shall the responsible party be an individual single-family homeowner. Selection of a project location that is under municipal authority avoids the need to obtain authority from a third party for the construction and future maintenance of the project.
- Maintenance: A maintenance plan that addresses the maintenance criteria at N.J.A.C. 7:8-5.8 will be provided. In addition, if the maintenance responsibility is being transferred to the municipality or another entity, the entity responsible for the cost of the maintenance must be identified. The municipality may provide the option for the applicant to convey the mitigation project to the municipality, if the applicant provides for the cost of maintenance in perpetuity.
- Permits: Any and all necessary local, state or other applicable permits for the mitigation measure or project will be obtained prior to the municipal approval of the project for which mitigation is being provided.
- Construction: The Township will provide information to demonstrate that the construction of the mitigation project coincides with the construction of the proposed project. A certificate of occupancy or final approval by the municipality for the project requiring mitigation cannot be issued until the mitigation project or measure receives final approval. Any mitigation projects proposed by the municipality to offset the stormwater impacts of that municipality's own projects must be completed within six months of the completion of the municipal project to remain in compliance with their NJPDES General Permit.

Figure 1



Pie chart illustrating the land use in Hamilton Township (Urban, Agricultural, Forest, Wetlands, Barren Land, and Water).

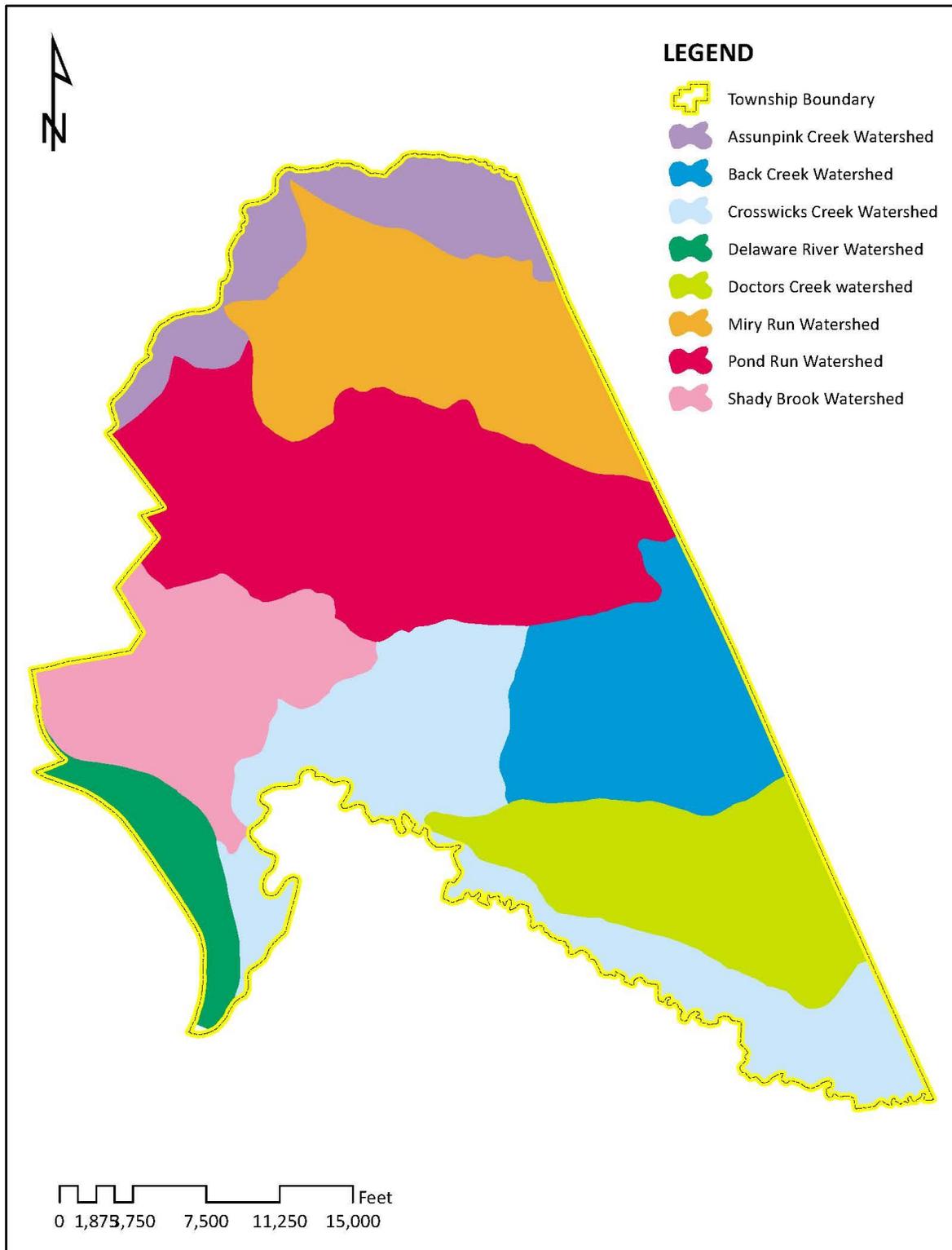
Figure 2



- | | | |
|------------------------------|----------------------------|--------------------------------|
| ■ Recreational Land | ■ Commercial | ■ Industrial |
| ■ Mixed Urban | ■ Rural Residential | ■ Low Density Residential |
| ■ Medium Density Residential | ■ High Density Residential | ■ Tranportation/Infrastructure |

Pie chart illustrating the various types of urban land use in Hamilton Township (low density residential, medium density residential, high density residential, mixed urban, commercial, industrial, etc.)

Figure 3



Subwatershed Map of Hamilton Township

Table 1

| Land Cover | TP load (lbs/acre/yr) | TN load (lbs/acre/yr) | TSS load (lbs/acre/yr) |
|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| High, Medium Density Residential | 1.4 | 15 | 140 |
| Low Density, Rural Residential | 0.6 | 5 | 100 |
| Commercial | 2.1 | 22 | 200 |
| Industrial | 1.5 | 16 | 200 |
| Urban, Mixed Urban, Other Urban | 1.0 | 10 | 120 |
| Agriculture | 1.3 | 10 | 300 |
| Forest, Water, Wetlands | 0.1 | 3 | 40 |
| Barrenland/Transitional Area | 0.5 | 5 | 60 |

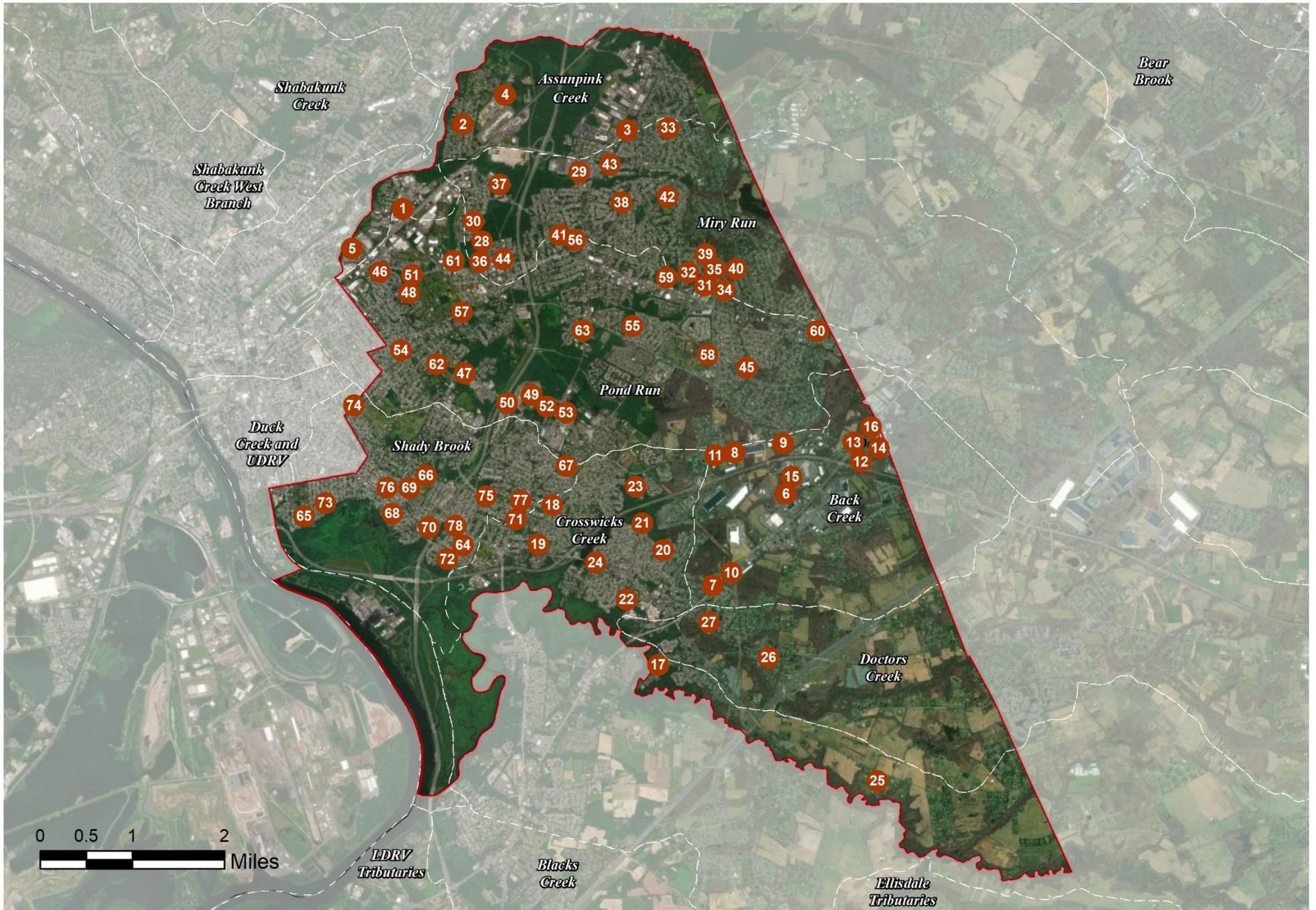
Ref: NJDEP Stormwater Best Management Practice Manual, 2004.

Aerial Loading Coefficients

Attachment 1

Potential Stormwater Mitigation Project Sites by Subwatershed

HAMILTON TOWNSHIP: GREEN INFRASTRUCTURE SITES



SITES WITHIN THE ASSUNPINK CREEK SUBWATERSHED

1. BLV Holding Company Inc.
2. Cornell Heights Field
3. Ibis Plaza Office Suites
4. Medallion Care
5. Siemens Industry & Delaval Turbomachinery

SITES WITHIN THE BACK CREEK SUBWATERSHED

6. AAA Mid Atlantic
7. Abandoned Restaurant
8. Caola Company
9. Crockett Middle School
10. Custom Calibrations Solutions, LLC
11. Hamilton Medical Arts
12. Kleinfelder
13. S. T. Peterson & Co. Inc. Office Space
14. Skylink Technologies
15. Verizon
16. York Risk Services

SITES WITHIN THE CROSSWICKS CREEK SUBWATERSHED

17. Grow-Ville Community Day School
18. Robinson Elementary School
19. St. Raphael-Holy Angels Parish
20. Sunnybrae Elementary School
21. Sunnybrae League Park
22. Switlik Park
23. The Stone Terrace
24. Yardville Heights Elementary School
25. YMCA

SITES WITHIN THE DOCTORS CREEK SUBWATERSHED

26. St. George Ukrainian Orthodox Church
27. Yardville Elementary School

SITES WITHIN THE MIRY RUN SUBWATERSHED

28. Christ Presbyterian Church
29. Clover Square
30. Enterprise Volunteer Fire Co.
31. First Pentecostal Prayer of Faith Church
32. First Presbyterian Church/YMCA Young Wonders
33. H.D. Morrison Elementary School
34. Hamilton Square Baptist Church
35. Hamilton Township School District
36. Klockner Elementary School
37. Merlin Industries Inc.
38. Morgan Elementary School
39. Nottingham Little League
40. Nottingham Volunteer Fire Company Station 17
41. Our Lady of Sorrows School
42. Saint Mark United Methodist Church
43. University Plaza
44. VFW Hamilton Township Post

SITES WITHIN THE POND RUN SUBWATERSHED

45. Alexander Elementary School
46. Bromley Park
47. Colonial Volunteer Fire Company
48. Greenwood Elementary School
49. Hamilton Golf Center
50. Hamilton Lanes

51. Hamilton Township Building
52. Hamilton Township Library
53. Hamilton Township Police Division
54. Kuser Elementary School
55. Langtree Elementary School
56. Mercerville Elementary School
57. Pace Charter School
58. Reynolds Middle School
59. Sayen Elementary School
60. St. Gregory the Great Catholic Church
61. Suburban Plaza (Walmart)
62. Trenton Catholic Academy
63. Whitehorse Plaza Shopping Center

SITES WITHIN THE SHADY BROOK SUBWATERSHED

64. Aldi
65. Duetzville Park
66. George E. Wilson Elementary School
67. Grice Middle School
68. Hamilton Educational Program
69. Hamilton High School West
70. Independence Mall
71. K McCoy Inc. Insurance Agency
72. Kisthardt Elementary School
73. Lalor Elementary School
74. Life St. Francis
75. McGalliard Elementary School
76. Rusling Hose Fire Company
77. St. Mark Lutheran Church
78. True Servant Preschool Academy

BLV HOLDING COMPANY INC.



Subwatershed: Assunpink Creek

Site Area: 128,109 sq. ft.

Address: 3 Industrial Drive
Hamilton, NJ 08619

Block and Lot: Block 1581, Lot 13,14

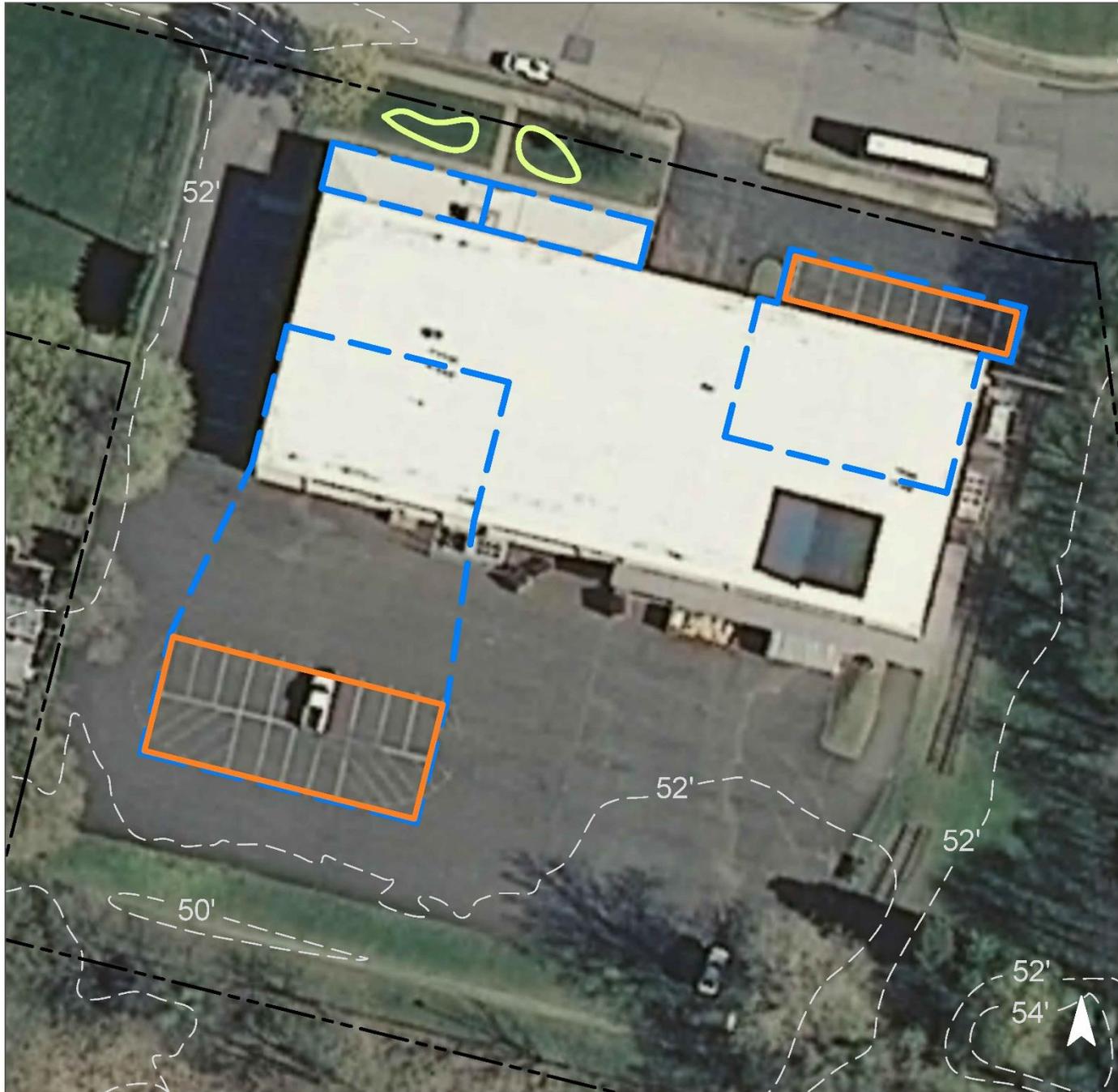


Bioretention systems can be installed to capture, treat, and infiltrate roof runoff in front of the building. Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 60 | 76,494 | 3.7 | 38.6 | 351.2 | 0.060 | 2.10 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.042 | 7 | 3,060 | 0.11 | 400 | \$2,000 |
| Pervious pavement | 0.437 | 73 | 32,090 | 1.21 | 5,080 | \$127,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



BLV Holding Company Inc.

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CORNELL HEIGHTS FIELD



Subwatershed: Assunpink Creek

Site Area: 207,769 sq. ft.

Address: 301 Amherst Avenue
Hamilton, NJ 08619

Block and Lot: Block 1535, Lot 19

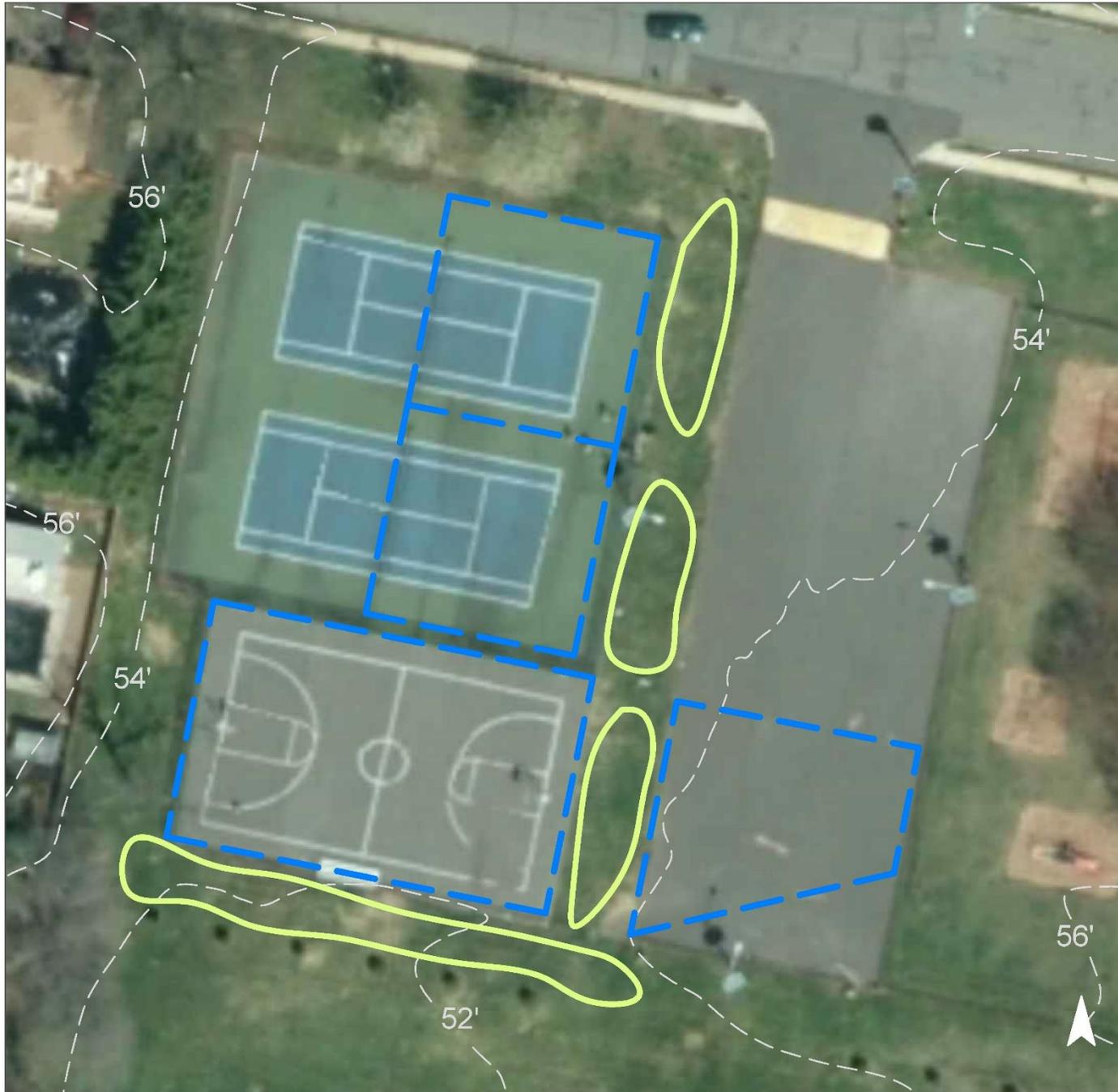


Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 24 | 49,319 | 2.4 | 24.9 | 226.4 | 0.038 | 1.35 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.396 | 66 | 29,060 | 1.09 | 3,850 | \$19,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Cornell Heights Field

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



IBIS PLAZA OFFICE SUITES



Subwatershed: Assunpink Creek

Site Area: 363,367 sq. ft.

Address: 3525 Quakerbridge Road
Hamilton, NJ 08619

Block and Lot: Block 1521, Lot 111,113,114



Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 86 | 313,593 | 15.1 | 158.4 | 1,439.8 | 0.244 | 8.60 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 1.200 | 201 | 88,070 | 3.31 | 11,380 | \$284,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Ibis Plaza Office Suites

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



MEDALLION CARE



Subwatershed: Assunpink Creek

Site Area: 728,833 sq. ft.

Address: 1 Electronics Drive
Hamilton, NJ 08619

Block and Lot: Block 1505, Lot 9



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 45 | 325,970 | 15.7 | 164.6 | 1,496.6 | 0.254 | 8.94 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.724 | 121 | 53,140 | 2.00 | 8,250 | \$206,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Medallion Care

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SIEMENS INDUSTRY & DELAVAL TURBOMACHINERY



Subwatershed: Assunpink Creek

Site Area: 1,643,180 sq. ft.

Address: 840 Nottingham Way
Trenton, NJ 08638

Block and Lot: Block 1517, Lot 1

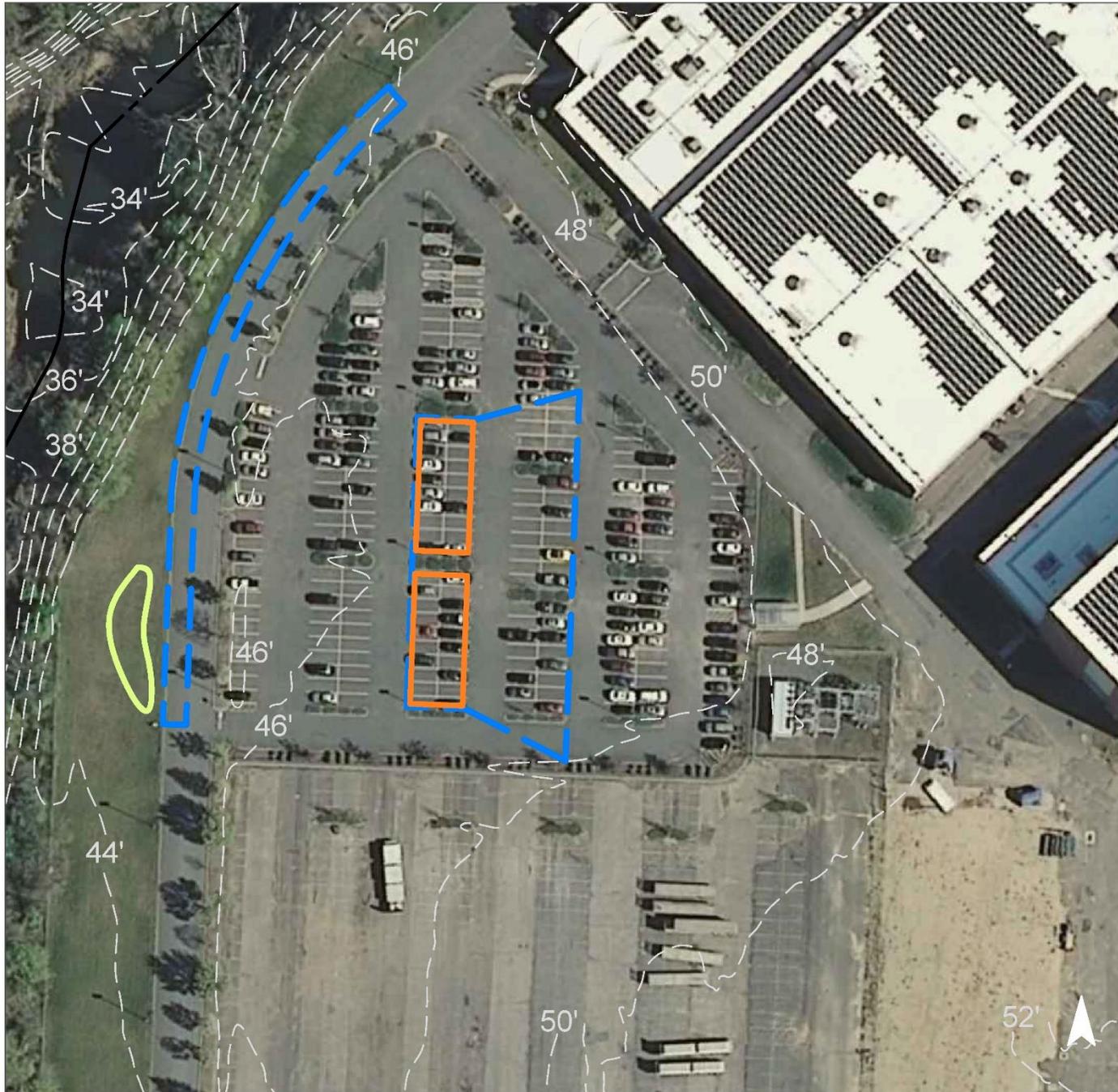


A bioretention system can be installed to capture, treat, and infiltrate runoff draining from the driveway. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|-----------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 68 | 1,109,814 | 53.5 | 560.5 | 5,095.6 | 0.865 | 30.44 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.175 | 29 | 12,810 | 0.48 | 1,675 | \$8,375 |
| Pervious pavement | 0.547 | 92 | 40,150 | 1.51 | 6,690 | \$167,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Siemens Industry & Delaval Turbomachinery

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



AAA MID ATLANTIC



Subwatershed: Back Creek

Site Area: 924,624 sq. ft.

Address: 700 Horizon Drive
Hamilton, NJ 08691

Block and Lot: Block 2612, Lot 5.02



Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff via existing curb cuts. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 30 | 276,011 | 13.3 | 139.4 | 1,267.3 | 0.215 | 7.57 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.154 | 26 | 11,280 | 0.42 | 1,475 | \$7,375 |
| Pervious pavement | 2.758 | 462 | 202,370 | 7.60 | 26,850 | \$671,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



AAA Mid Atlantic

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ABANDONED RESTAURANT



Subwatershed: Back Creek
Site Area: 79,478 sq. ft.
Address: 429 NJ-156
Hamilton, NJ 08620
Block and Lot: Block 2686, Lot 1,2



Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 82 | 65,161 | 3.1 | 32.9 | 299.2 | 0.051 | 1.79 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.429 | 72 | 31,450 | 1.18 | 3,720 | \$93,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Abandoned Restaurant

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CAOLA COMPANY



Subwatershed: Back Creek

Site Area: 94,850 sq. ft.

Address: 2 Crossroads Drive
Hamilton, NJ 08691

Block and Lot: Block 2591, Lot 14

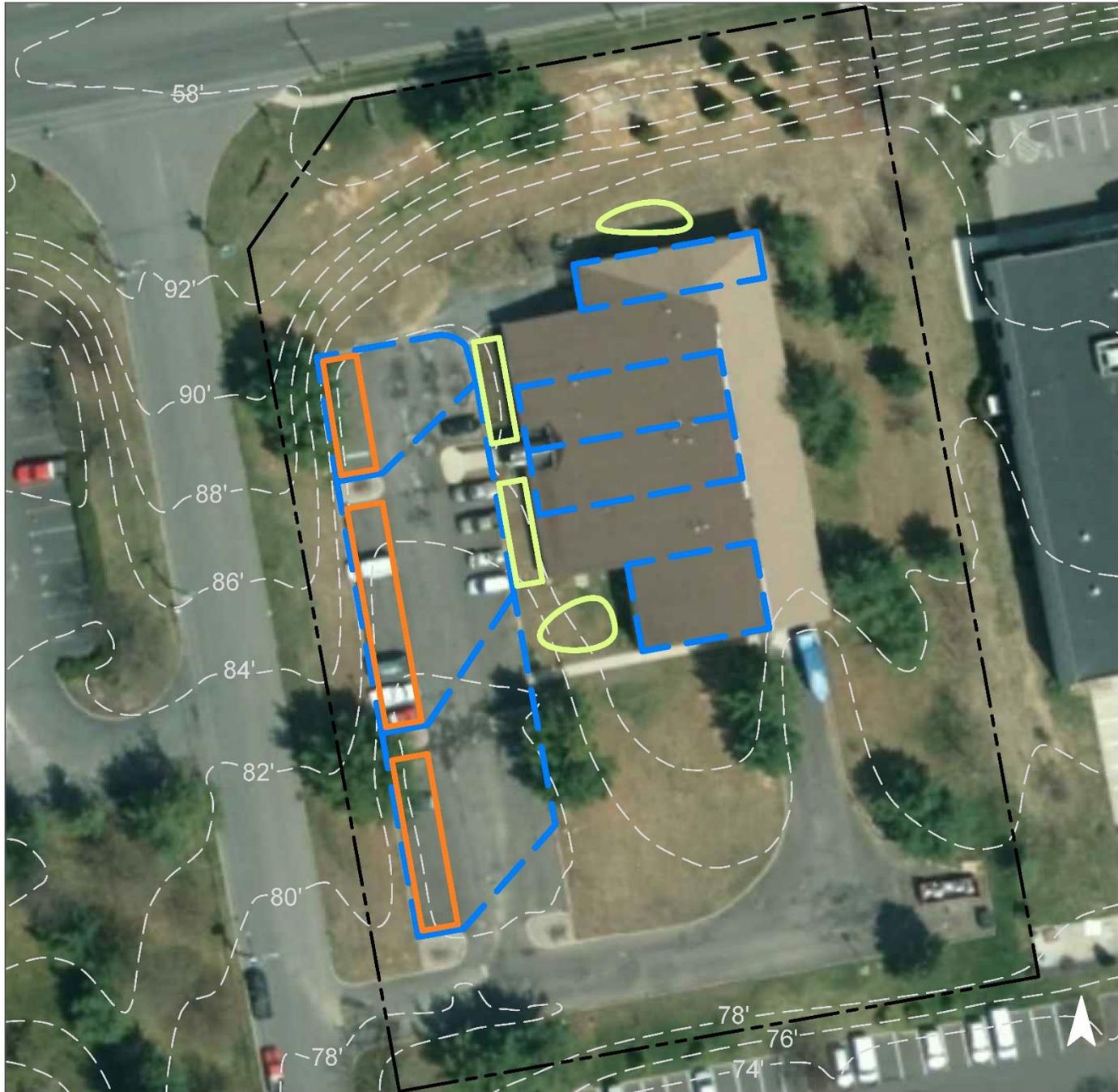


Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 53 | 50,019 | 2.4 | 25.3 | 229.7 | 0.039 | 1.37 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.162 | 27 | 11,860 | 0.45 | 1,550 | \$7,750 |
| Pervious pavement | 0.336 | 56 | 24,660 | 0.93 | 3,755 | \$93,875 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Caola Company

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CROCKETT MIDDLE SCHOOL



Subwatershed: Back Creek

Site Area: 1,751,814 sq. ft.

Address: 2631 Kuser Road
Hamilton, NJ 08691

Block and Lot: Block 2592, Lot 2



Bioretention systems can be installed to capture, treat, and infiltrate rooftop runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 14 | 252,991 | 12.2 | 127.8 | 1,161.6 | 0.197 | 6.94 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.534 | 89 | 39,200 | 1.47 | 5,130 | \$25,650 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Crockett Middle School

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CUSTOM CALIBRATION SOLUTIONS, LLC



Subwatershed: Back Creek
Site Area: 201,089 sq. ft.
Address: 535 US-130
Hamilton, NJ 08620
Block and Lot: Block 2712, Lot 130



A bioretention system can be installed to capture, treat, and infiltrate parking lot runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Planter boxes can be constructed to allow roof runoff to be reused and can overflow to the adjacent pervious pavement. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 40 | 81,426 | 3.9 | 41.1 | 373.9 | 0.063 | 2.23 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.313 | 52 | 22,940 | 0.86 | 3,000 | \$15,000 |
| Pervious pavement | 1.085 | 182 | 79,640 | 2.99 | 8,680 | \$217,000 |
| Planter boxes | n/a | 1 | n/a | n/a | 3 (boxes) | \$3,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Custom Calibrations Solutions, LLC

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON MEDICAL ARTS



Subwatershed: Back Creek

Site Area: 182,831 sq. ft.

Address: 2501 Kuser Road
Hamilton, NJ 08691

Block and Lot: Block 2591, Lot 7



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 66 | 121,379 | 5.9 | 61.3 | 557.3 | 0.095 | 3.33 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.804 | 135 | 59,020 | 2.22 | 6,970 | \$174,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Medical Arts

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



KLEINFELDER



Subwatershed: Back Creek

Site Area: 309,617 sq. ft.

Address: 3 AAA Drive
Hamilton, NJ 08691

Block and Lot: Block 2597, Lot 13



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A bioretention system can be installed to capture, treat, and infiltrate roadway runoff via curb cuts. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 40 | 124,614 | 6.0 | 62.9 | 572.2 | 0.097 | 3.42 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.065 | 11 | 4,780 | 0.18 | 625 | \$3,125 |
| Pervious pavement | 1.200 | 201 | 88,070 | 3.31 | 11,380 | \$284,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Kleinfelder

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



S. T. PETERSON & CO. INC. OFFICE SPACE



Subwatershed: Back Creek

Site Area: 305,378 sq. ft.

Address: 1 AAA Drive
Hamilton, NJ 08691

Block and Lot: Block 2597, Lot 14

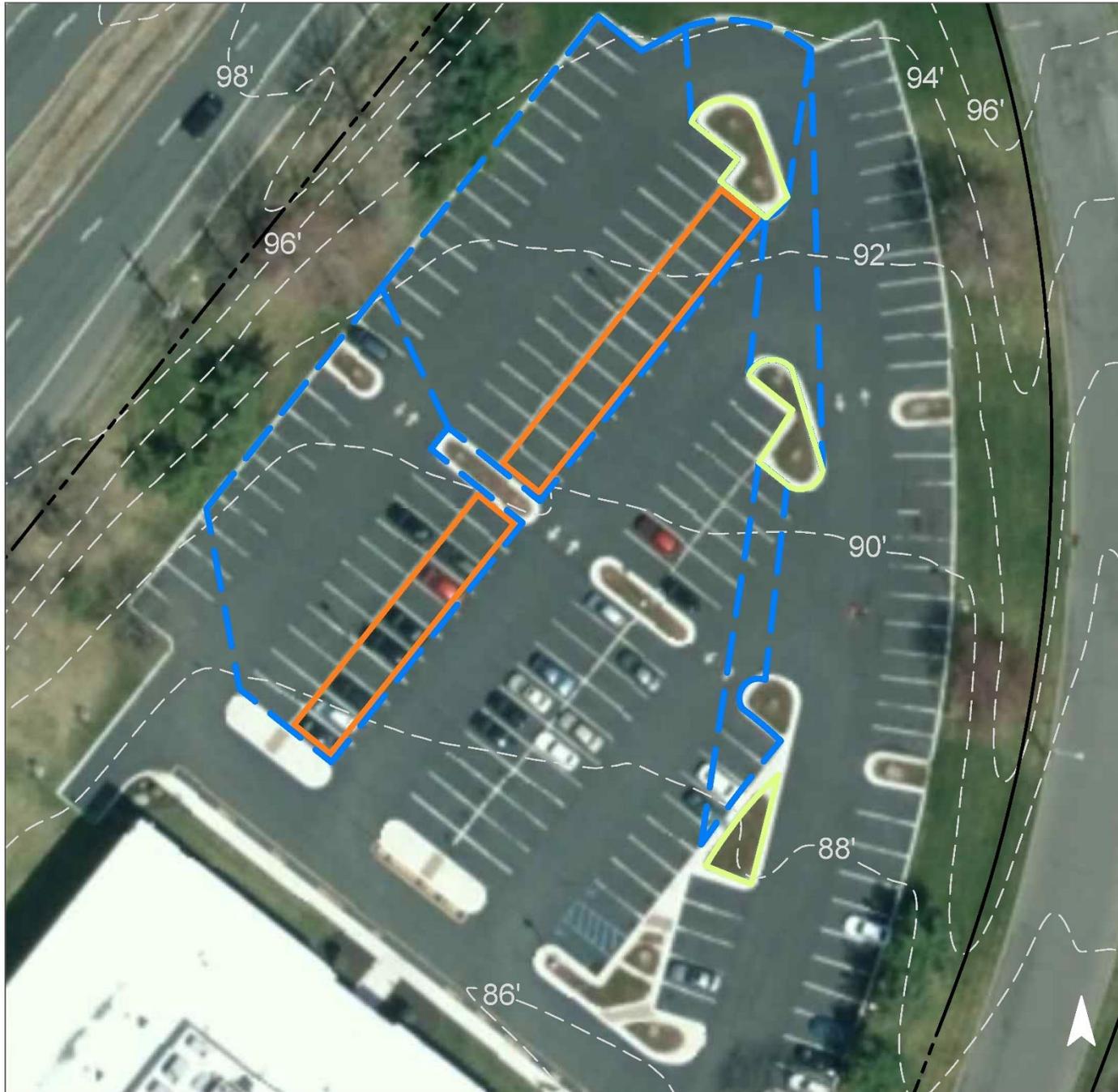


Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Parking lot islands can be transformed into bioretention systems to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 38 | 116,632 | 5.6 | 58.9 | 535.5 | 0.091 | 3.20 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.115 | 19 | 8,450 | 0.32 | 1,120 | \$5,600 |
| Pervious pavement | 0.482 | 81 | 35,370 | 1.33 | 4,100 | \$102,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



S. T. Peterson & Co. Inc. Office Space

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SKYLINK TECHNOLOGIES



Subwatershed: Back Creek

Site Area: 69,930 sq. ft.

Address: 5 Marlen Drive
Hamilton, NJ 08691

Block and Lot: Block 2597.01, Lot 5



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 89 | 62,020 | 3.0 | 31.3 | 284.8 | 0.048 | 1.70 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.052 | 9 | 3,820 | 0.14 | 500 | \$2,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Skylink Technologies

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



VERIZON



Subwatershed: Back Creek
Site Area: 907,720 sq. ft.
Address: 600 Horizon Drive
Hamilton, NJ 08691
Block and Lot: Block 2612, Lot 5.07, 5.08



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 48 | 431,354 | 20.8 | 217.9 | 1,980.5 | 0.336 | 11.83 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 4.965 | 831 | 364,300 | 13.69 | 40,880 | \$1,022,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Verizon

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



YORK RISK SERVICES



Subwatershed: Back Creek
Site Area: 422,358 sq. ft.
Address: 2 South Gold Drive
Hamilton, NJ 08691
Block and Lot: Block 2597.01, Lot 1



Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 37 | 154,883 | 7.5 | 78.2 | 711.1 | 0.121 | 4.25 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.187 | 31 | 13,730 | 0.52 | 1,825 | \$9,125 |
| Pervious pavement | 0.809 | 135 | 59,360 | 2.23 | 6,150 | \$153,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



York Risk Services

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



GROW-VILLE COMMUNITY DAY SCHOOL



Subwatershed: Crosswicks Creek

Site Area: 30,612 sq. ft.

Address: 449 Church Street
Hamilton, NJ 08620

Block and Lot: Block 2661, Lot 24, 26

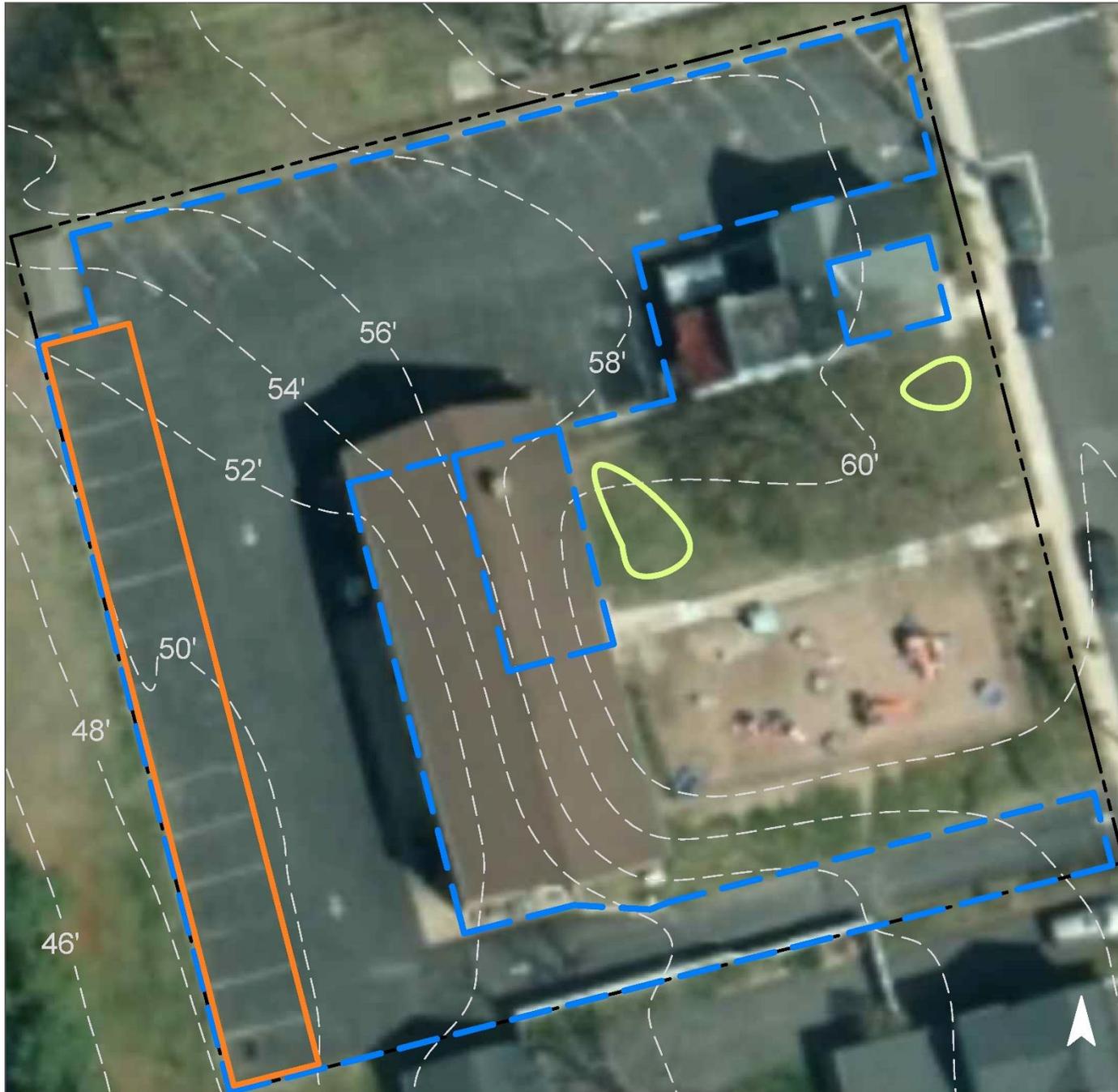


Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 85 | 26,020 | 1.3 | 13.1 | 119.5 | 0.020 | 0.71 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.032 | 5 | 2,330 | 0.09 | 305 | \$1,525 |
| Pervious pavement | 0.416 | 70 | 30,510 | 1.15 | 2,850 | \$71,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Grow-Ville Community Day School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ROBINSON ELEMENTARY SCHOOL



Subwatershed: Crosswicks Creek

Site Area: 408,677 sq. ft.

Address: 495 Gropp Avenue
Hamilton, NJ 08610

Block and Lot: Block 2548, Lot 17,18,19



A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Bioretention systems can be installed to capture, treat, and infiltrate runoff from the surrounding paved surfaces. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 28 | 113,018 | 5.4 | 57.1 | 518.9 | 0.088 | 3.10 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.518 | 87 | 38,000 | 1.43 | 4,970 | \$24,850 |
| Pervious pavement | 0.408 | 68 | 29,940 | 1.13 | 4,790 | \$119,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Robinson Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ST. RAPHAEL-HOLY ANGELS PARISH



Subwatershed: Crosswicks Creek

Site Area: 611,220 sq. ft.

Address: 3500 South Broad Street
Hamilton, NJ 08610

Block and Lot: Block 2542, Lot 30, 32



Bioretention systems can be installed at the rectory and convent to capture, treat, and infiltrate roof runoff. Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 48 | 293,454 | 14.1 | 148.2 | 1,347.4 | 0.229 | 8.05 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.107 | 18 | 7,880 | 0.30 | 1,035 | \$5,175 |
| Pervious pavement | 0.799 | 134 | 58,620 | 2.20 | 7,700 | \$192,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. Raphael-Holy Angels Parish

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SUNNYBRAE ELEMENTARY SCHOOL



Subwatershed: Crosswicks Creek

Site Area: 294,171 sq. ft.

Address: 166 Elton Avenue
Hamilton, NJ 08620

Block and Lot: Block 2606, Lot 126



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff from the school. Parking spaces and play areas can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 26 | 75,555 | 3.6 | 38.2 | 346.9 | 0.059 | 2.07 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.352 | 59 | 25,850 | 0.97 | 3,400 | \$17,000 |
| Pervious pavement | 0.264 | 44 | 19,400 | 0.73 | 4,850 | \$121,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Sunnybrae Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SUNNYBRAE LEAGUE PARK



Subwatershed: Crosswicks Creek

Site Area: 1,138,686 sq. ft.

Address: 5 Pleasant Drive
Hamilton, NJ 08620

Block and Lot: Block 2606, Lot 96, 98



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A bioretention system can be installed to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 8 | 96,109 | 4.6 | 48.5 | 441.3 | 0.075 | 2.64 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.068 | 11 | 4,970 | 0.19 | 650 | \$3,250 |
| Pervious pavement | 0.949 | 159 | 69,640 | 2.62 | 8,735 | \$218,375 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Sunnybrae League Park

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SWITLIK PARK



Subwatershed: Crosswicks Creek
Site Area: 807,435 sq. ft.
Address: 5 Fisher Place
Hamilton, NJ 08620
Block and Lot: Block 2614, Lot 130



Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff and roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 15 | 122,463 | 5.9 | 61.8 | 562.3 | 0.095 | 3.36 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.077 | 13 | 5,670 | 0.21 | 350 | \$1,750 |
| Pervious pavement | 1.433 | 240 | 105,150 | 3.95 | 12,150 | \$303,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Switlik Park

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



THE STONE TERRACE



Subwatershed: Crosswicks Creek

Site Area: 527,979 sq. ft.

Address: 2275 Kuser Road
Hamilton, NJ 08690

Block and Lot: Block 2575, Lot 161



Planter boxes can be constructed on the perimeter of the facility to allow roof runoff to be reused. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A bioretention system can be installed in the entry island to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 35 | 186,118 | 9.0 | 94.0 | 854.5 | 0.145 | 5.10 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.064 | 11 | 4,720 | 0.18 | 620 | \$3,100 |
| Pervious pavement | 1.106 | 185 | 81,160 | 3.05 | 7,885 | \$197,125 |
| Planter boxes | n/a | 6 | n/a | n/a | 7 (boxes) | \$7,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Stone Terrace

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



YARDVILLE HEIGHTS ELEMENTARY SCHOOL



Subwatershed: Crosswicks Creek

Site Area: 244,009 sq. ft.

Address: 3880 South Broad Street
Hamilton, NJ 08620

Block and Lot: Block 2606, Lot 15



Two bioretention systems can be installed in front of the school to capture roof runoff. Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Part of the play area can also be repaved with pervious pavement. Planter boxes can be constructed on the perimeter of the school in the playground area to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 43 | 103,719 | 5.0 | 52.4 | 476.2 | 0.081 | 2.84 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.054 | 9 | 3,940 | 0.15 | 520 | \$2,600 |
| Pervious pavement | 0.635 | 106 | 46,590 | 1.75 | 5,010 | \$125,250 |
| Planter boxes | n/a | 3 | n/a | n/a | 4 (boxes) | \$4,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Yardville Heights Elementary School

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



YMCA



Subwatershed: Crosswicks Creek

Site Area: 2,304,067 sq. ft.

Address: 185 Sawmill Road
Hamilton, NJ 08620

Block and Lot: Block 2730, Lot 14.01

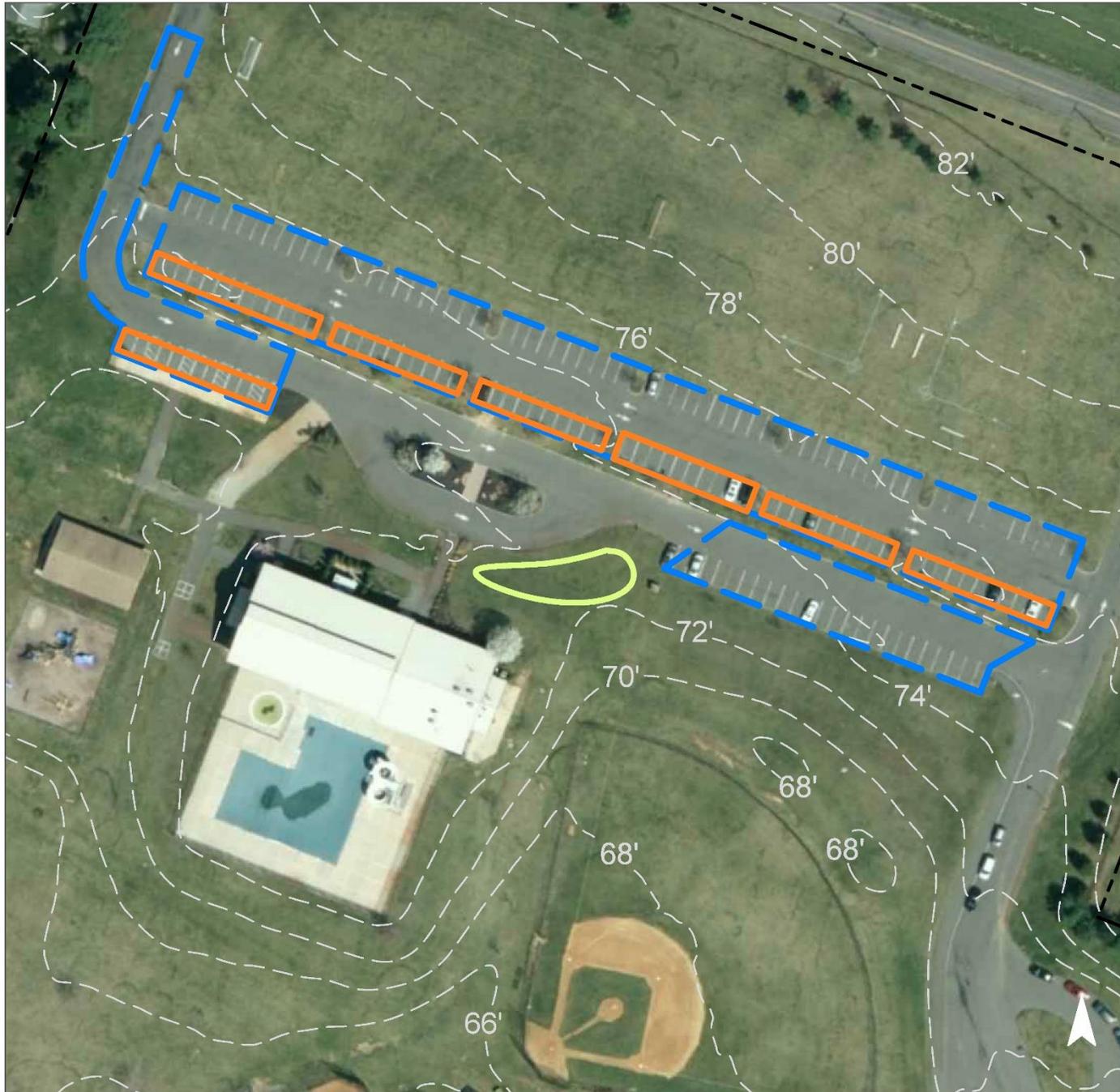


Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A bioretention system can be installed at the front of the building to capture, treat, and infiltrate parking lot runoff via curb cuts. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 10 | 226,550 | 10.9 | 114.4 | 1,040.2 | 0.177 | 6.21 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.236 | 39 | 17,300 | 0.65 | 3,250 | \$16,250 |
| Pervious pavement | 1.477 | 247 | 108,350 | 4.07 | 14,205 | \$355,125 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



YMCA

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ST. GEORGE UKRAINIAN ORTHODOX CHURCH



Subwatershed: Doctors Creek

Site Area: 536,154 sq. ft.

Address: 839 Yardville Allentown Road
Hamilton, NJ 08620

Block and Lot: Block 2724, Lot 82



There are several opportunities to install bioretention systems to capture, treat, and infiltrate runoff; three are adjacent to the church buildings, and the other is along the driveway. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 20 | 109,828 | 5.3 | 55.5 | 504.3 | 0.086 | 3.01 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.161 | 27 | 11,830 | 0.44 | 1,550 | \$7,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. George Ukrainian Orthodox Church

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



YARDVILLE ELEMENTARY SCHOOL



Subwatershed: Doctors Creek

Site Area: 187,256 sq. ft.

Address: 450 Yardville Allentown Road
Hamilton, NJ 08620

Block and Lot: Block 2699, Lot 1



Planter boxes can be constructed around the perimeter of the mobile classrooms and school to allow roof runoff to be reused. A bioretention system can be installed to capture, treat, and infiltrate roof runoff on the front lawn of the school. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 44 | 81,714 | 3.9 | 41.3 | 375.2 | 0.064 | 2.24 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.038 | 6 | 2,750 | 0.10 | 360 | \$1,800 |
| Pervious pavement | 0.263 | 44 | 19,270 | 0.72 | 1,800 | \$45,000 |
| Planter boxes | n/a | 6 | n/a | n/a | 8 (boxes) | \$8,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Yardville Elementary School

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CHRIST PRESBYTERIAN CHURCH



Subwatershed: Miry Run

Site Area: 142,625 sq. ft.

Address: 746 Klockner Road
Hamilton, NJ 08619

Block and Lot: Block 1656, Lot 58



Planter boxes can be constructed around the perimeter of the building to allow roof runoff to be reused. A bioretention system can be installed near the main entrance to capture, treat, and infiltrate runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 23 | 32,397 | 1.6 | 16.4 | 148.7 | 0.025 | 0.89 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.016 | 3 | 1,180 | 0.04 | 160 | \$800 |
| Planter boxes | n/a | 3 | n/a | n/a | 4 (boxes) | \$4,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Christ Presbyterian Church

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



CLOVER SQUARE



Subwatershed: Miry Run

Site Area: 887,560 sq. ft.

Address: 3100 Quakerbridge Road
Hamilton, NJ 08619

Block and Lot: Block 1603, Lot 19



Rows of parking spaces throughout the shopping plaza can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 81 | 721,004 | 34.8 | 364.1 | 3,310.4 | 0.562 | 19.77 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 4.451 | 745 | 326,560 | 12.27 | 34,649 | \$866,225 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Clover Square

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ENTERPRISE VOLUNTEER FIRE COMPANY



Subwatershed: Miry Run

Site Area: 49,506 sq. ft.

Address: 569 Klockner Road
Hamilton, NJ 08619

Block and Lot: Block 1648, Lot 12, 16



Rainwater can be harvested by installing a cistern at the building. The water can be used for cleaning vehicles or for conducting car wash fundraisers. A bioretention system can be installed to capture, treat, and infiltrate roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 88 | 43,673 | 2.1 | 22.1 | 200.5 | 0.034 | 1.20 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.031 | 5 | 2,240 | 0.08 | 300 | \$1,500 |
| Rainwater harvesting | 0.031 | 5 | 1,000 | 0.04 | 1,000 (gal) | \$2,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Enterprise Volunteer Fire Company

-  bioretention system
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



FIRST PENTECOSTAL PRAYER OF FAITH CHURCH



Subwatershed: Miry Run
Site Area: 35,411 sq. ft.
Address: 3632 Nottingham Way
Hamilton, NJ 08690
Block and Lot: Block 1836, Lot 34

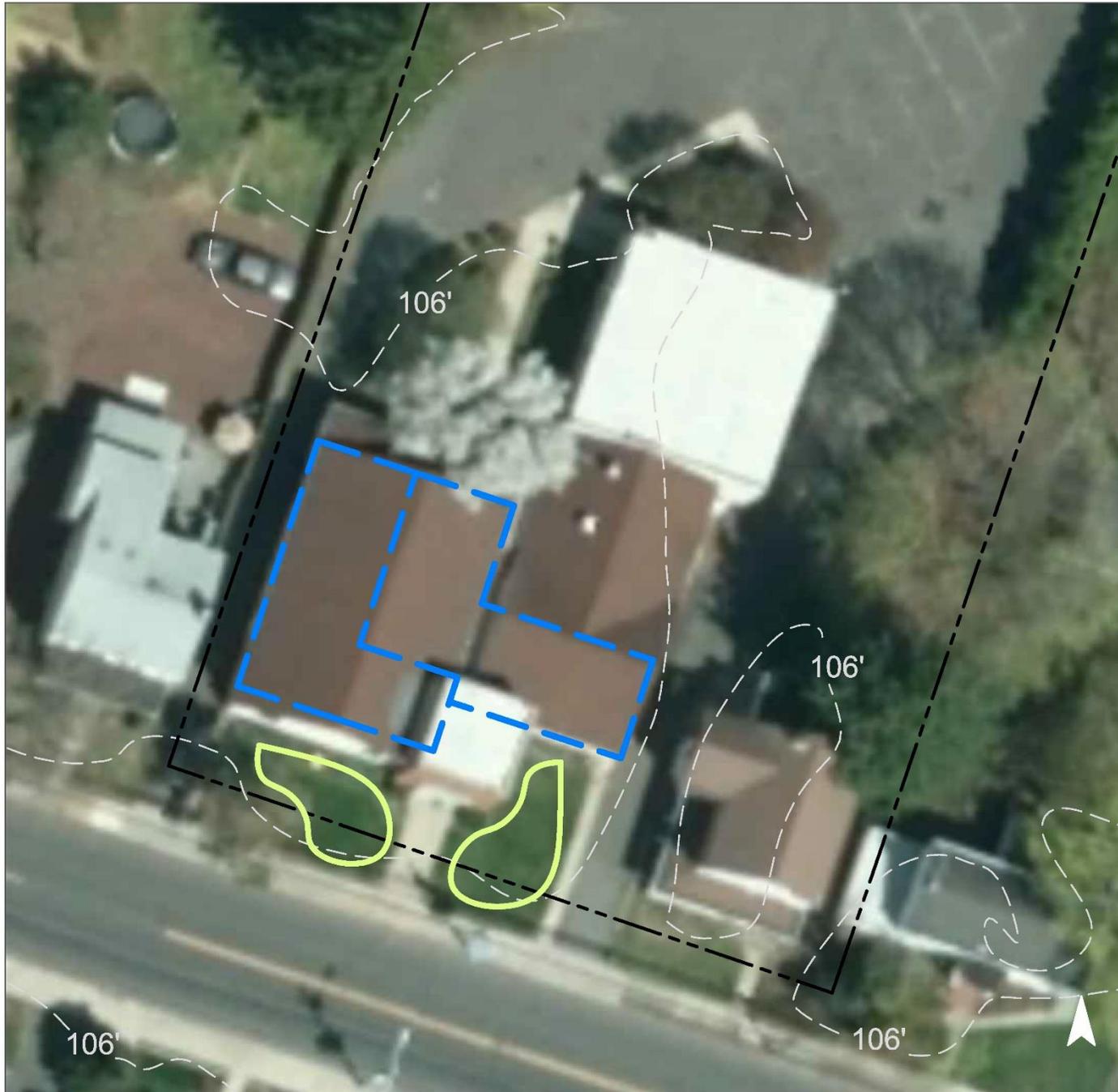


Mirrored bioretention systems can be installed at the entrance of the church to capture, treat, and infiltrate roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 87 | 30,651 | 1.5 | 15.5 | 140.7 | 0.024 | 0.84 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.070 | 12 | 5,160 | 0.19 | 675 | \$3,375 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



First Pentecostal Prayer of Faith Church

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



FIRST PRESBYTERIAN CHURCH / YMCA YOUNG WONDERS



Subwatershed: Miry Run

Site Area: 85,330 sq. ft.

Address: 3550 Nottingham Way
Hamilton, NJ 08690

Block and Lot: Block 1830, Lot 20, 50-52



A bioretention system can be installed to capture, treat, and infiltrate roof runoff near the entrance to the church. Rows of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 81 | 68,988 | 3.3 | 34.8 | 316.7 | 0.054 | 1.89 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.035 | 6 | 2,540 | 0.10 | 335 | \$1,675 |
| Pervious pavement | 0.156 | 26 | 11,480 | 0.43 | 2,460 | \$61,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



**First Presbyterian Church /
YMCA Young Wonders**

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



H.D. MORRISON ELEMENTARY SCHOOL (UNIVERSITY HEIGHTS)



Subwatershed: Miry Run

Site Area: 562,187 sq. ft.

Address: 645 Paxson Avenue
Hamilton, NJ 08619

Block and Lot: Block 1561, Lot 13, 24, 25



A bioretention system can be installed to capture, treat, and infiltrate paved surface runoff. A section of the adjacent area could also be depaved. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 22 | 126,391 | 6.1 | 63.8 | 580.3 | 0.098 | 3.47 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.101 | 17 | 7,440 | 0.28 | 975 | \$4,875 |
| Pervious pavement | 0.567 | 95 | 41,580 | 1.56 | 4,160 | \$104,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



**H.D. Morrison
Elementary School
(University Heights)**

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON SQUARE BAPTIST CHURCH



Subwatershed: Miry Run

Site Area: 156,832 sq. ft.

Address: 3752 Nottingham Way
Hamilton, NJ 08690

Block and Lot: Block 1839, Lot 87



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 44 | 68,505 | 3.3 | 34.6 | 314.5 | 0.053 | 1.88 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.063 | 11 | 4,650 | 0.17 | 610 | \$3,050 |
| Pervious pavement | 0.862 | 144 | 63,240 | 2.38 | 6,230 | \$155,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Square Baptist Church

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON TOWNSHIP SCHOOL DISTRICT



Subwatershed: Miry Run

Site Area: 56,745 sq. ft.

Address: 90 Park Avenue
Hamilton, NJ 08690

Block and Lot: Block 1836, Lot 6, 8



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 87 | 49,126 | 2.4 | 24.8 | 225.6 | 0.038 | 1.35 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.087 | 15 | 6,370 | 0.24 | 835 | \$4,175 |
| Pervious pavement | 0.242 | 41 | 17,760 | 0.67 | 2,270 | \$56,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Township School District

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



KLOCKNER ELEMENTARY SCHOOL



Subwatershed: Miry Run

Site Area: 102,765 sq. ft.

Address: 830 Klockner Road
Hamilton, NJ 08619

Block and Lot: Block 1659, Lot 2,3



The row of parking spaces furthest east of the school can be replaced with pervious pavement to capture and infiltrate stormwater. Planter boxes can be constructed around the perimeter of the school to allow roof runoff to be reused. Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 48 | 49,185 | 2.4 | 24.8 | 225.8 | 0.038 | 1.35 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.025 | 4 | 1,830 | 0.07 | 240 | \$1,200 |
| Pervious pavement | 0.362 | 61 | 26,580 | 1.00 | 2,480 | \$62,000 |
| Planter boxes | n/a | 2 | n/a | n/a | 3 (boxes) | \$3,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Klockner Elementary School

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

0 50' 100'

MERLIN INDUSTRIES INC.



Subwatershed: Miry Run

Site Area: 935,824 sq. ft.

Address: 2904 East State Street
Hamilton, NJ 08619

Block and Lot: Block 1602, Lot 7



A bioretention system can be installed in front of the building to capture, treat, and infiltrate roof runoff. Pervious pavement can be installed in parking spaces to capture runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 22 | 203,182 | 9.8 | 102.6 | 932.9 | 0.158 | 5.57 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.087 | 15 | 6,370 | 0.24 | 835 | \$4,175 |
| Pervious pavement | 0.844 | 141 | 61,940 | 2.33 | 6,370 | \$159,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Merlin Industries Inc.

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



MORGAN ELEMENTARY SCHOOL



Subwatershed: Miry Run

Site Area: 369,401 sq. ft.

Address: 38 Stamford Road
Hamilton, NJ 08619

Block and Lot: Block 1618, Lot 34,40



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 35 | 129,743 | 6.3 | 65.5 | 595.7 | 0.101 | 3.56 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.066 | 11 | 4,880 | 0.18 | 640 | \$3,200 |
| Pervious pavement | 0.412 | 69 | 30,260 | 1.14 | 4,320 | \$108,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Morgan Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



NOTTINGHAM LITTLE LEAGUE



Subwatershed: Miry Run

Site Area: 615,843 sq. ft.

Address: 120 Mapleshade Avenue
Hamilton, NJ 08690

Block and Lot: Block 1722, Lot 95,96,105



The existing swale behind the gray building at the ball field can be converted into a bioswale. Additionally, a bioretention system can be installed to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 21 | 127,290 | 6.1 | 64.3 | 584.4 | 0.099 | 3.49 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.125 | 21 | 9,180 | 0.34 | 1,200 | \$6,000 |
| Bioswale | 0.040 | 10 | 385 | 0.01 | 770 | \$3,850 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Nottingham Little League

-  bioretention system
-  bioswale
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



NOTTINGHAM VOLUNTEER FIRE COMPANY STATION 17



Subwatershed: Miry Run

Site Area: 153,281 sq. ft.

Address: 200 Mercer Street
Hamilton, NJ 08690

Block and Lot: Block 1839, Lot 24.01



A bioretention system can be installed to capture, treat, and infiltrate runoff from the roof. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Rainwater can be harvested by installing a cistern at the fire company. The water can be used for cleaning emergency vehicles or for conducting car wash fundraisers. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 93 | 141,848 | 6.8 | 71.6 | 651.3 | 0.111 | 3.89 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.025 | 4 | 1,860 | 0.07 | 250 | \$1,250 |
| Pervious pavement | 0.221 | 37 | 16,250 | 0.61 | 1,520 | \$38,000 |
| Rainwater harvesting | 0.052 | 9 | 2,000 | 0.08 | 2,000 (gal) | \$4,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Nottingham Volunteer Fire Company Station 17

-  bioretention system
-  pervious pavement
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



OUR LADY OF SORROWS SCHOOL



Subwatershed: Miry Run

Site Area: 517,440 sq. ft.

Address: 3800 East State Street
Hamilton, NJ 08619

Block and Lot: Block 1666, Lot 80



A bioretention system can be installed in front of the school to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 42 | 219,134 | 10.6 | 110.7 | 1,006.1 | 0.171 | 6.01 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.029 | 5 | 2,160 | 0.08 | 290 | \$1,450 |
| Pervious pavement | 1.462 | 245 | 107,290 | 4.03 | 13,800 | \$345,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Our Lady of Sorrows School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SAINT MARK UNITED METHODIST CHURCH



Subwatershed: Miry Run

Site Area: 284,082 sq. ft.

Address: 465 Paxson Avenue
Hamilton, NJ 08690

Block and Lot: Block 1622, Lot 8



Bioretention systems can be installed to capture, treat, and infiltrate parking lot and roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 40 | 113,873 | 5.5 | 57.5 | 522.8 | 0.089 | 3.12 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.608 | 102 | 44,640 | 1.68 | 5,850 | \$29,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Saint Mark United Methodist Church

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



UNIVERSITY PLAZA



Subwatershed: Miry Run

Site Area: 167,756 sq. ft.

Address: 96 Flock Road
Hamilton, NJ 08619

Block and Lot: Block 1551, Lot 16



A bioretention system can be installed along the driveway to capture, treat, and infiltrate stormwater via curb cuts. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 72 | 120,521 | 5.8 | 60.9 | 553.4 | 0.094 | 3.31 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.061 | 10 | 4,500 | 0.17 | 600 | \$3,000 |
| Pervious pavement | 0.408 | 68 | 29,960 | 1.13 | 4,140 | \$103,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



University Plaza

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



VFW HAMILTON TOWNSHIP POST



Subwatershed: Miry Run

Site Area: 143,315 sq. ft.

Address: 77 Christine Avenue
Hamilton, NJ 08619

Block and Lot: Block 1660, Lot 25,26



Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 42 | 60,776 | 2.9 | 30.7 | 279.0 | 0.047 | 1.67 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.145 | 24 | 10,610 | 0.40 | 1,390 | \$6,950 |
| Pervious pavement | 0.219 | 37 | 16,060 | 0.60 | 1,500 | \$37,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



VFW Hamilton Township Post

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ALEXANDER ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 526,633 sq. ft.

Address: 20 Robert Frost Drive
Hamilton, NJ 08690

Block and Lot: Block 1980, Lot 20



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Portions of the play areas can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 24 | 128,186 | 6.2 | 64.7 | 588.6 | 0.100 | 3.52 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.098 | 16 | 7,220 | 0.27 | 950 | \$4,750 |
| Pervious pavement | 0.711 | 119 | 52,200 | 1.96 | 4,880 | \$122,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Alexander Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



BROMLEY PARK



Subwatershed: Pond Run

Site Area: 219,967 sq. ft.

Address: 1651 East State Street
Hamilton, NJ 08609

Block and Lot: Block 1733, Lot 7

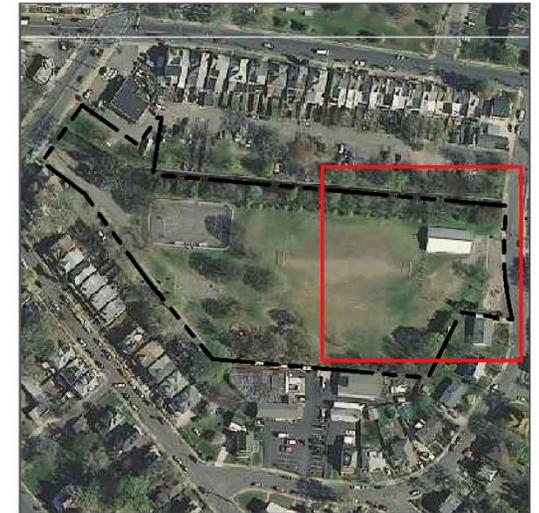
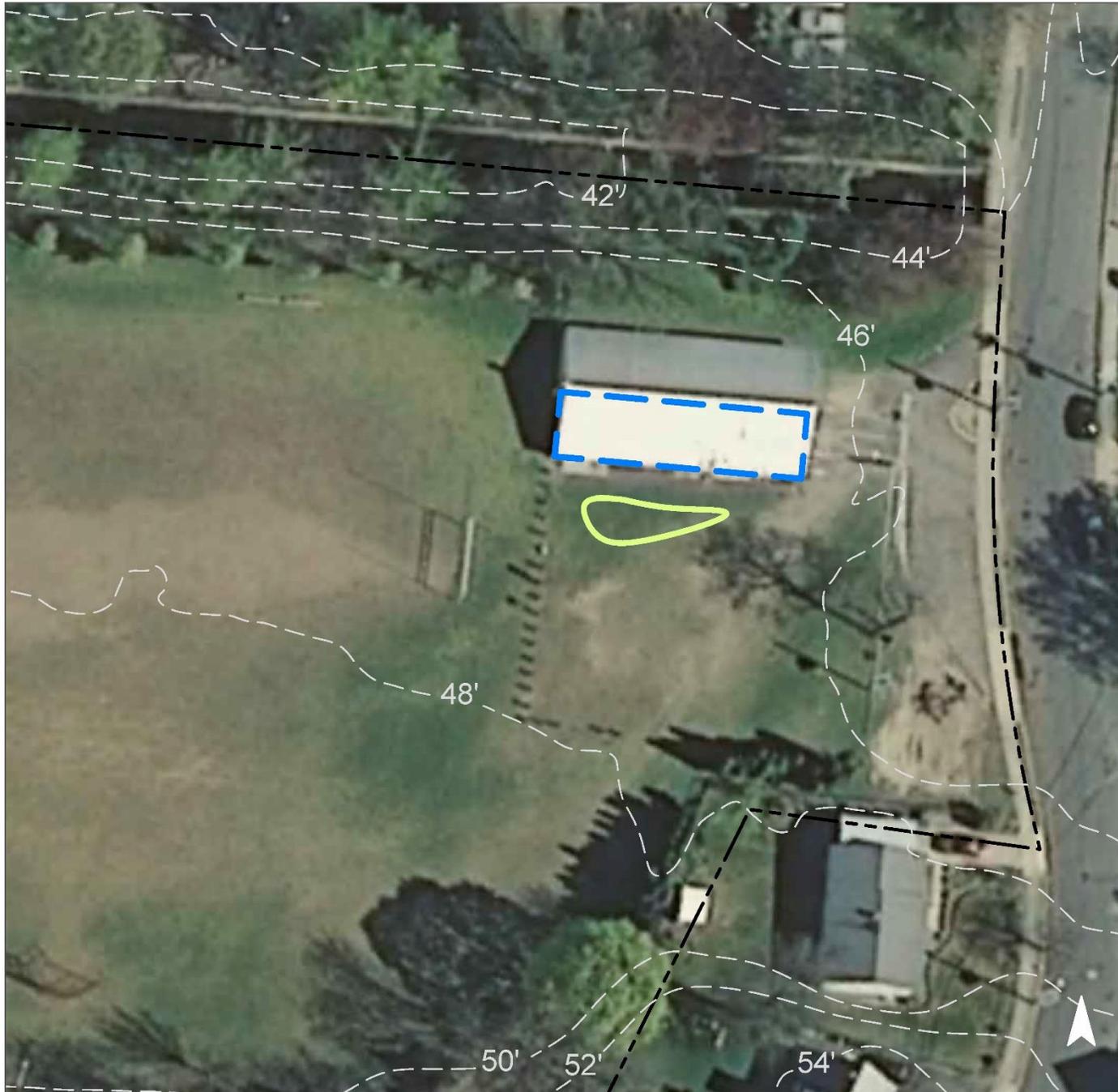


A bioretention system can be installed to capture, treat, and infiltrate runoff generated by the adjacent maintenance building. A channel of Pond Run is present along the park. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 14 | 29,780 | 1.4 | 15.0 | 136.7 | 0.023 | 0.82 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.044 | 7 | 3,210 | 0.12 | 420 | \$2,100 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bromley Park

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



COLONIAL VOLUNTEER FIRE COMPANY



Subwatershed: Pond Run
Site Area: 324,471 sq. ft.
Address: 801 Kuser Road
Hamilton, NJ 08619
Block and Lot: Block 2154, Lot 4



Rainwater can be harvested by installing a cistern at the fire company. The water can be used for cleaning emergency vehicles or for conducting car wash fundraisers. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 49 | 158,286 | 7.6 | 79.9 | 726.8 | 0.123 | 4.34 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.746 | 125 | 54,780 | 2.06 | 5,500 | \$137,500 |
| Rainwater harvesting | 0.082 | 14 | 2,500 | 0.23 | 2,500 (gal) | \$5,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Colonial Volunteer Fire Company

-  pervious pavement
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



GREENWOOD ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 83,373 sq. ft.

Address: 2069 Greenwood Avenue
Hamilton, NJ 08609

Block and Lot: Block 1884, Lot 1

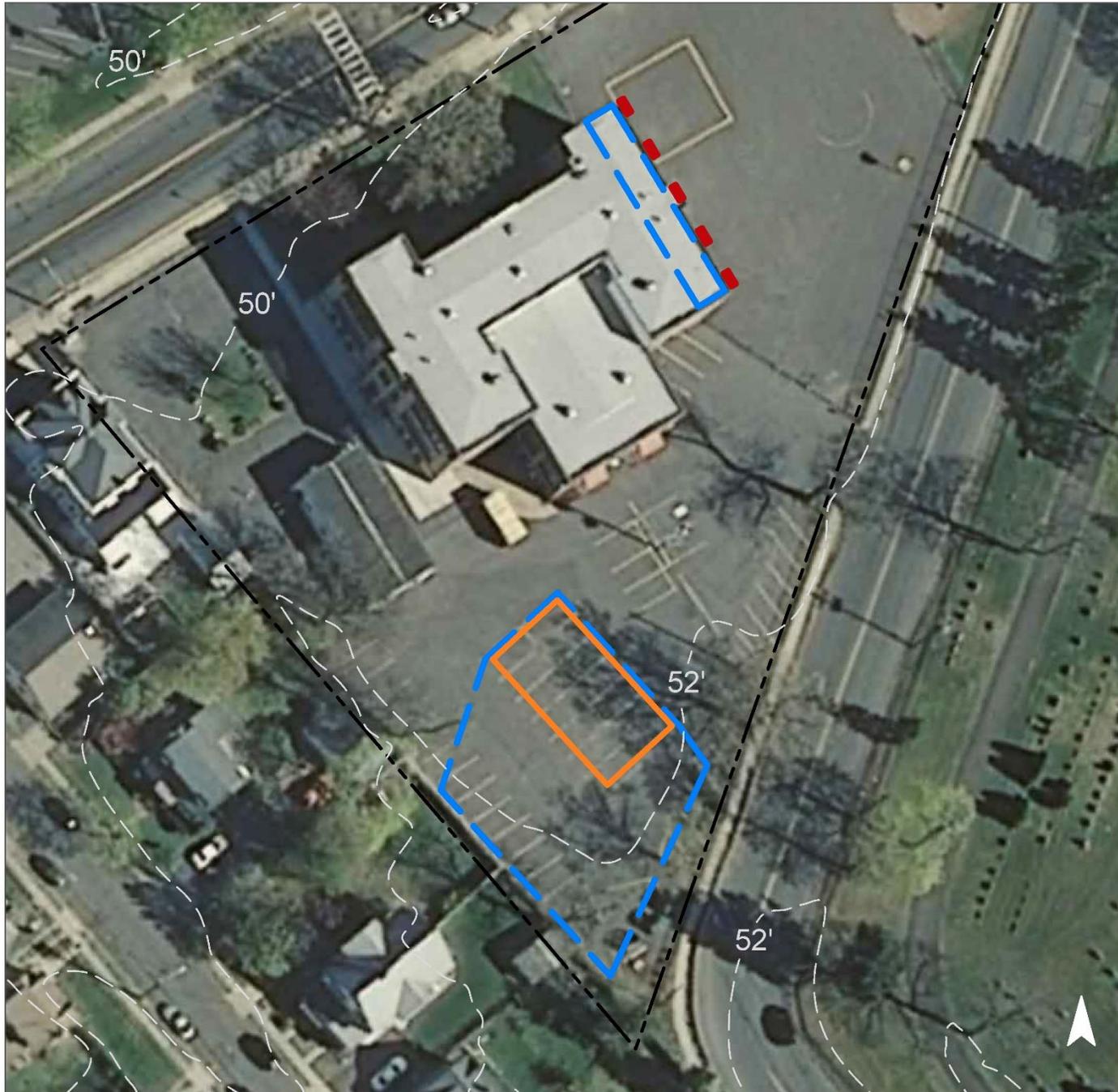


Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Planter boxes can be constructed to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 89 | 74,555 | 3.6 | 37.7 | 342.3 | 0.058 | 2.04 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.217 | 36 | 15,950 | 0.60 | 2,660 | \$66,500 |
| Planter boxes | n/a | 4 | n/a | n/a | 5 (boxes) | \$5,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Greenwood Elementary School

-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON GOLF CENTER



Subwatershed: Pond Run

Site Area: 3,076,264 sq. ft.

Address: 5 Justice Samuel A
Alito Jr Way
Hamilton, NJ 08619

Block and Lot: Block 2163, Lot 5,8



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff near the entrance to the building. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 6 | 198,955 | 9.6 | 100.5 | 913.5 | 0.155 | 5.46 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.079 | 13 | 5,790 | 0.22 | 760 | \$3,800 |
| Pervious pavement | 0.197 | 33 | 14,450 | 0.54 | 1,350 | \$33,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Golf Center

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON LANES



Subwatershed: Pond Run

Site Area: 240,604 sq. ft.

Address: 1200 Kuser Road
Hamilton, NJ 08619

Block and Lot: Block 2163, Lot 9



A section of the parking lot can be depaved, and a bioretention system can be installed to capture, treat, and infiltrate parking lot runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater from the parking lot and the building's rooftop. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 67 | 162,114 | 7.8 | 81.9 | 744.3 | 0.126 | 4.45 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.242 | 41 | 17,780 | 0.67 | 2,325 | \$11,625 |
| Pervious pavement | 1.286 | 215 | 94,400 | 3.55 | 13,380 | \$334,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Lanes

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON TOWNSHIP MUNICIPAL BUILDING



Subwatershed: Pond Run

Site Area: 436,805 sq. ft.

Address: 2100 Greenwood Avenue
Hamilton, NJ 08609

Block and Lot: Block 1757, Lot 24

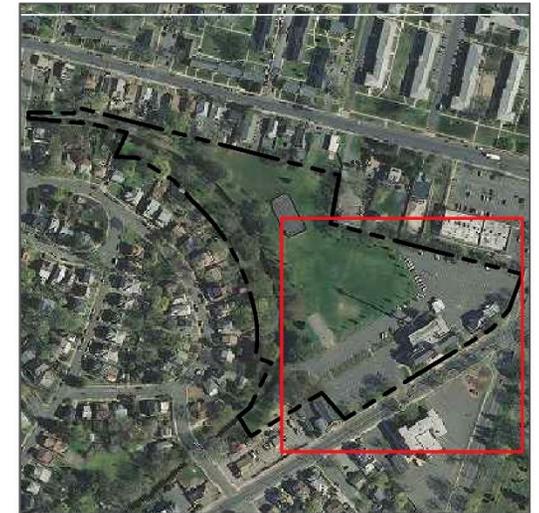
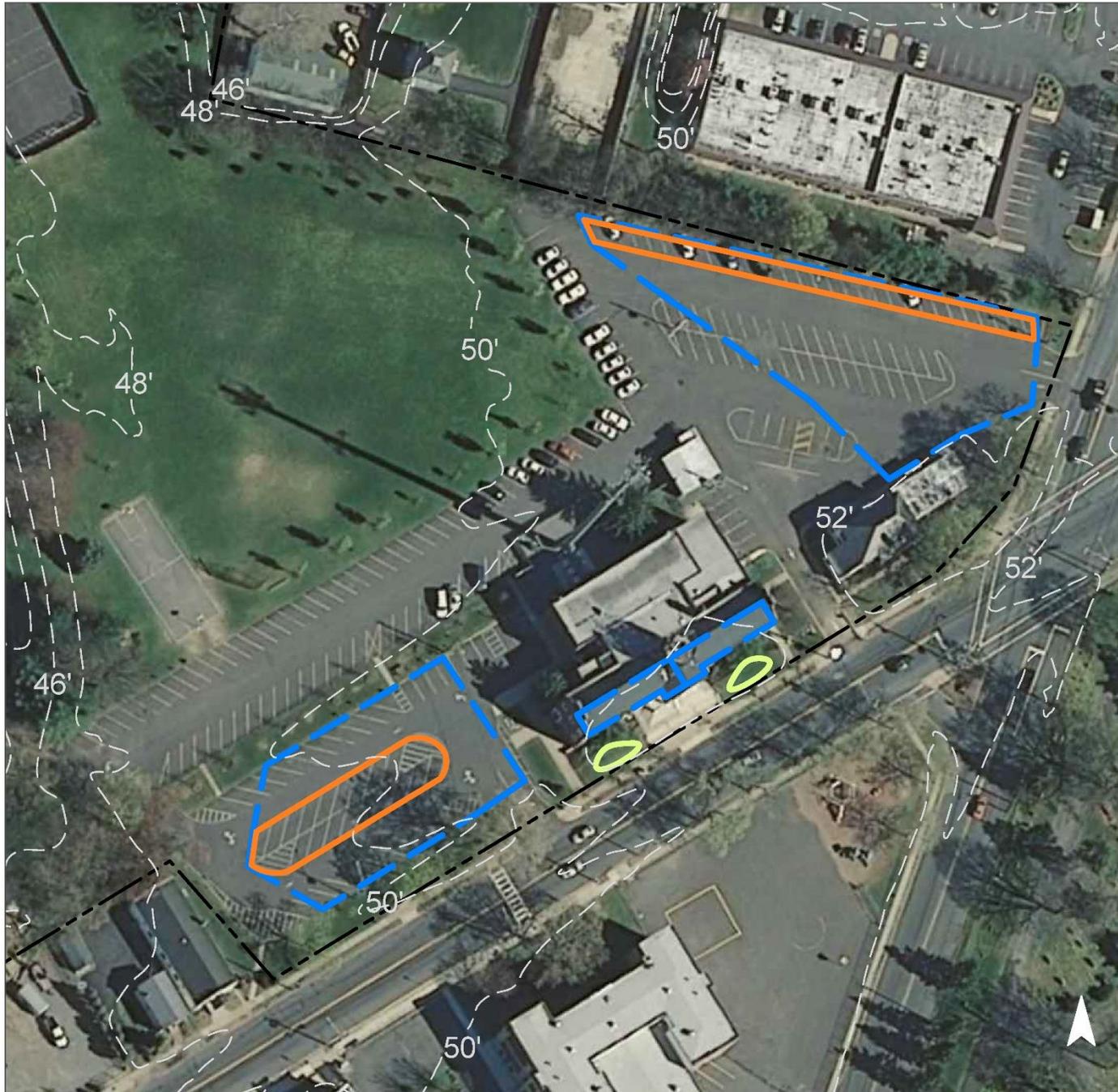


Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 38 | 164,366 | 7.9 | 83.0 | 754.7 | 0.128 | 4.51 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.059 | 10 | 4,300 | 0.16 | 250 | \$1,250 |
| Pervious pavement | 0.961 | 161 | 70,540 | 2.65 | 9,900 | \$247,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Township Municipal Building

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON TOWNSHIP LIBRARY



Subwatershed: Pond Run

Site Area: 350,879 sq. ft.

Address: 1 Justice Samuel A
Alito Jr Way
Hamilton, NJ 08619

Block and Lot: Block 2163, Lot 6



A bioretention system can be installed to capture, treat, and infiltrate sidewalk runoff via a trench drain. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 34 | 118,144 | 5.7 | 59.7 | 542.4 | 0.092 | 3.24 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.032 | 5 | 2,370 | 0.09 | 310 | \$1,550 |
| Pervious pavement | 0.466 | 78 | 34,220 | 1.29 | 4,275 | \$106,875 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Township Library

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON TOWNSHIP POLICE DIVISION



Subwatershed: Pond Run
Site Area: 419,914 sq. ft.
Address: 1270 Whitehorse
Mercerville Road
Hamilton, NJ 08619
Block and Lot: Block 2163, Lot 7



Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 52 | 218,343 | 10.5 | 110.3 | 1,002.5 | 0.170 | 5.99 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.233 | 39 | 17,130 | 0.64 | 2,240 | \$11,200 |
| Pervious pavement | 0.414 | 69 | 30,400 | 1.14 | 2,840 | \$71,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Township Police Division

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



KUSER ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 114,206 sq. ft.

Address: 70 Newkirk Avenue
Hamilton, NJ 08629

Block and Lot: Block 2023, Lot 31,32,42,43



A bioretention system can be installed at the front of the building to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Planter boxes can be constructed to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 67 | 76,683 | 3.7 | 38.7 | 352.1 | 0.060 | 2.10 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.026 | 4 | 1,910 | 0.07 | 250 | \$1,250 |
| Pervious pavement | 0.150 | 25 | 11,040 | 0.41 | 2,440 | \$61,000 |
| Planter boxes | n/a | 6 | n/a | n/a | 8 (boxes) | \$8,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Kuser Elementary School

-  bioretention system
-  pervious pavement
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



LANGTREE ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 679,288 sq. ft.

Address: 2080 Whatley Road
Hamilton, NJ 08690

Block and Lot: Block 1925, Lot 19



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 13 | 88,838 | 4.3 | 44.9 | 407.9 | 0.069 | 2.44 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.314 | 53 | 23,050 | 0.87 | 3,020 | \$15,100 |
| Pervious pavement | 0.405 | 68 | 29,740 | 1.12 | 4,210 | \$105,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Langtree Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



MERCERVILLE ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 197,433 sq. ft.

Address: 60 Regina Avenue
Hamilton, NJ 08619

Block and Lot: Block 1694, Lot 27,28,29,30



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 58 | 113,776 | 5.5 | 57.5 | 522.4 | 0.089 | 3.12 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.760 | 127 | 55,730 | 2.09 | 5,290 | \$132,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Mercerville Elementary School

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



PACE CHARTER SCHOOL



Subwatershed: Pond Run

Site Area: 88,487 sq. ft.

Address: 1949 Hamilton Avenue
Hamilton, NJ 08619

Block and Lot: Block 1917, Lot 4



Two bioretention systems can be installed in front of the school to capture, treat, and infiltrate parking lot runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 46 | 40,404 | 1.9 | 20.4 | 185.5 | 0.031 | 1.11 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.122 | 20 | 8,930 | 0.34 | 1,180 | \$5,900 |
| Pervious pavement | 0.335 | 56 | 24,600 | 0.92 | 3,240 | \$81,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Pace Charter School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



REYNOLDS MIDDLE SCHOOL



Subwatershed: Pond Run

Site Area: 1,235,105 sq. ft.

Address: 2145 Yardville Hamilton Square Road
Hamilton, NJ 08690

Block and Lot: Block 1943, Lot 5



Bioretention systems can be installed to capture, treat, and infiltrate parking lot and roof runoff. Planter boxes can be constructed along the pavilion to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 23 | 284,929 | 13.7 | 143.9 | 1,308.2 | 0.222 | 7.81 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.192 | 32 | 14,070 | 0.53 | 1,840 | \$9,200 |
| Planter boxes | n/a | 6 | n/a | n/a | 8 (boxes) | \$8,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Reynolds Middle School

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SAYEN ELEMENTARY SCHOOL



Subwatershed: Pond Run

Site Area: 538,634 sq. ft.

Address: 3333 Nottingham Way
Hamilton, NJ 08690

Block and Lot: Block 1828, Lot 14



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Planter boxes can be constructed to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 15 | 80,043 | 3.9 | 40.4 | 367.5 | 0.062 | 2.20 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.220 | 37 | 16,160 | 0.61 | 2,115 | \$10,575 |
| Planter boxes | n/a | 2 | n/a | n/a | 3 (boxes) | \$3,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Sayen Elementary School

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ST. GREGORY THE GREAT CATHOLIC CHURCH



Subwatershed: Pond Run

Site Area: 663,284 sq. ft.

Address: 4620 Nottingham Way
Hamilton, NJ 08690

Block and Lot: Block 1841, Lot 182,183



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Rainwater can be harvested by installing a cistern to provide water for the school's garden. Planter boxes can be constructed to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 51 | 338,012 | 16.3 | 170.7 | 1,551.9 | 0.263 | 9.27 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.204 | 34 | 14,990 | 0.56 | 1,960 | \$9,800 |
| Pervious pavement | 2.114 | 354 | 155,110 | 5.83 | 15,070 | \$376,750 |
| Planter boxes | n/a | 5 | n/a | n/a | 6 (boxes) | \$6,000 |
| Rainwater harvesting | 0.043 | 7 | 1,300 | 0.12 | 1,300 (gal) | \$2,600 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. Gregory the Great Catholic Church

-  bioretention system
-  pervious pavement
-  planter box
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



SUBURBAN PLAZA (WALMART)



Subwatershed: Pond Run
Site Area: 1,058,104 sq. ft.
Address: 1700 Nottingham Way
Hamilton, NJ 08619
Block and Lot: Block 1589, Lot 167,168



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 88 | 925,875 | 44.6 | 467.6 | 4,251.0 | 0.721 | 25.39 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.328 | 55 | 24,090 | 0.91 | 35,100 | \$877,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Suburban Plaza (Walmart)

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



TRENTON CATHOLIC ACADEMY



Subwatershed: Pond Run

Site Area: 1,562,067 sq. ft.

Address: 175 Leonard Avenue
Hamilton, NJ 08610

Block and Lot: Block 2154, Lot 1.01,2



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 14 | 213,685 | 10.3 | 107.9 | 981.1 | 0.166 | 5.86 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.350 | 59 | 25,690 | 0.97 | 3,360 | \$16,800 |
| Pervious pavement | 1.706 | 286 | 125,190 | 4.70 | 13,515 | \$337,875 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Trenton Catholic Academy

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



WHITEHORSE PLAZA SHOPPING CENTER



Subwatershed: Pond Run

Site Area: 366,404 sq. ft.

Address: 1750 Whitehorse
Mercerville Road
Hamilton, NJ 08619

Block and Lot: Block 1922, Lot 7



Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 85 | 310,784 | 15.0 | 157.0 | 1,426.9 | 0.242 | 8.52 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 1.781 | 298 | 130,690 | 4.91 | 13,950 | \$348,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Whitehorse Plaza Shopping Center

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ALDI



Subwatershed: Shady Brook

Site Area: 174,577 sq. ft.

Address: 2735 South Broad Street
Hamilton, NJ 08610

Block and Lot: Block 2451, Lot 2

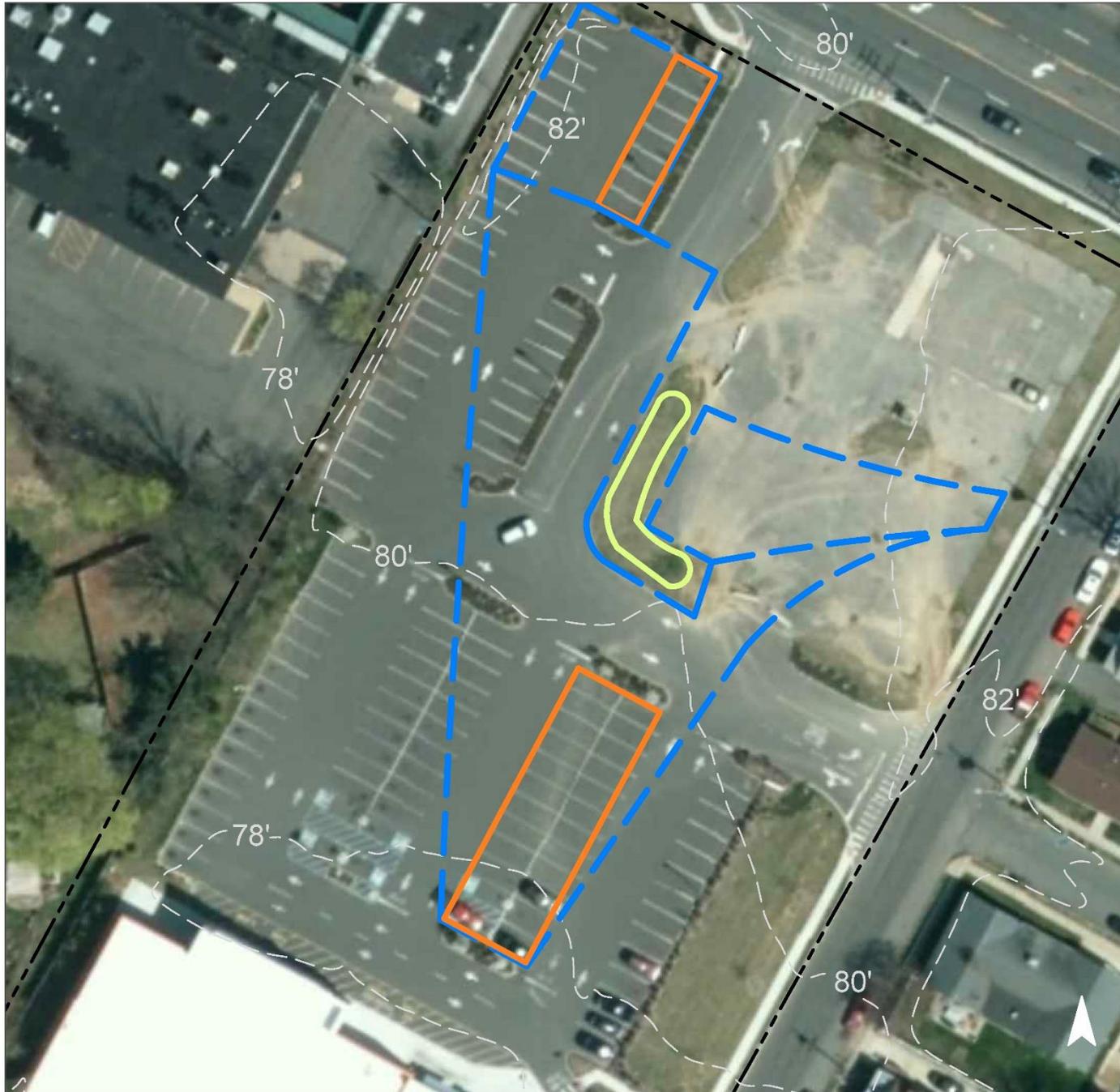


A bioretention system can be installed to capture, treat, and infiltrate runoff from the abandoned parking lot in front of the store. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 79 | 138,254 | 6.7 | 69.8 | 634.8 | 0.108 | 3.79 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.104 | 17 | 7,640 | 0.29 | 1,000 | \$5,000 |
| Pervious pavement | 0.686 | 115 | 50,310 | 1.89 | 5,235 | \$130,875 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Aldi

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



DUETZVILLE PARK



Subwatershed: Shady Brook

Site Area: 848,988 sq. ft.

Address: 498 Bunting Avenue
Hamilton, NJ 08611

Block and Lot: Block 2187, Lot 3,4



A bioretention system can be installed to capture, treat, and infiltrate roof runoff from the recreation building. A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 10 | 81,162 | 3.9 | 41.0 | 372.6 | 0.063 | 2.23 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.039 | 7 | 2,880 | 0.11 | 376 | \$1,881 |
| Pervious pavement | 0.337 | 56 | 24,700 | 0.93 | 3,420 | \$85,500 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Duetzville Park

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



GEORGE E. WILSON ELEMENTARY SCHOOL



Subwatershed: Shady Brook

Site Area: 931,393 sq. ft.

Address: 600 East Park Avenue
Hamilton, NJ 08610

Block and Lot: Block 2379, Lot 1,31

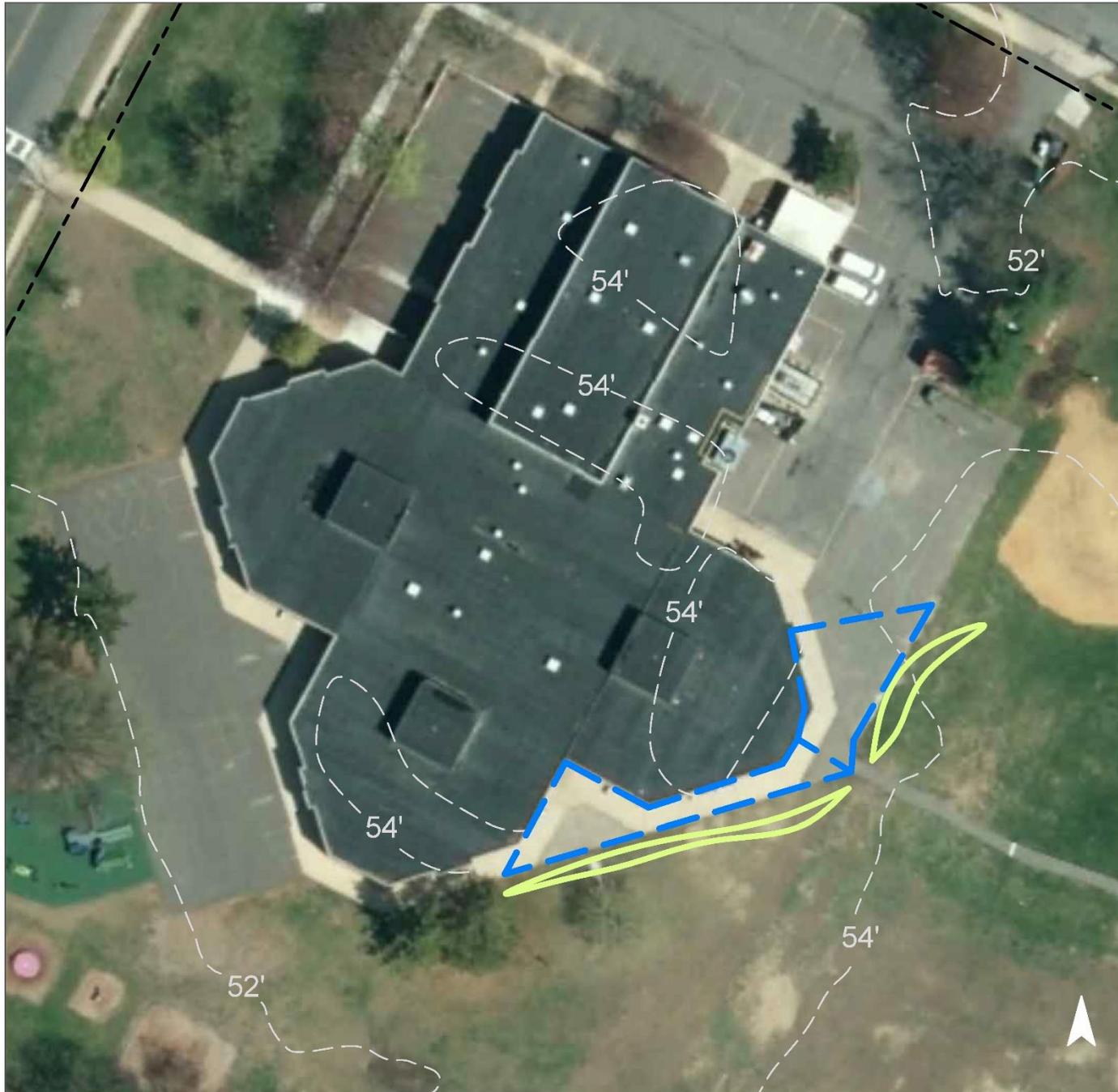


Bioretention systems can be installed to capture, treat, and infiltrate runoff from adjacent paved surfaces. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 15 | 139,279 | 6.7 | 70.3 | 639.5 | 0.109 | 3.82 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.098 | 16 | 7,210 | 0.27 | 950 | \$4,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



**George E. Wilson
Elementary School**

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



GRICE MIDDLE SCHOOL



Subwatershed: Shady Brook

Site Area: 954,219 sq. ft.

Address: 901 Whitehorse-Hamilton
Square Road
Hamilton, NJ 08610

Block and Lot: Block 2445, Lot 21,51



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff generated from paved surfaces. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 26 | 244,895 | 11.8 | 123.7 | 1,124.4 | 0.191 | 6.72 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.114 | 19 | 8,360 | 0.31 | 1,100 | \$5,500 |
| Pervious pavement | 1.203 | 201 | 88,270 | 3.32 | 11,450 | \$286,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Grice Middle School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON EDUCATIONAL PROGRAM



Subwatershed: Shady Brook

Site Area: 42,765 sq. ft.

Address: 310 Rowan Avenue
Hamilton, NJ 08610

Block and Lot: Block 2362, Lot 1



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 82 | 35,165 | 1.7 | 17.8 | 161.5 | 0.027 | 0.96 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.036 | 6 | 2,640 | 0.10 | 350 | \$1,750 |
| Pervious pavement | 0.308 | 52 | 22,620 | 0.85 | 3,320 | \$83,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton Educational Program

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



HAMILTON HIGH SCHOOL WEST



Subwatershed: Shady Brook

Site Area: 382,143 sq. ft.

Address: 2720 South Clinton Avenue
Hamilton, NJ 08610

Block and Lot: Block 2346, Lot 1-3, 17-25

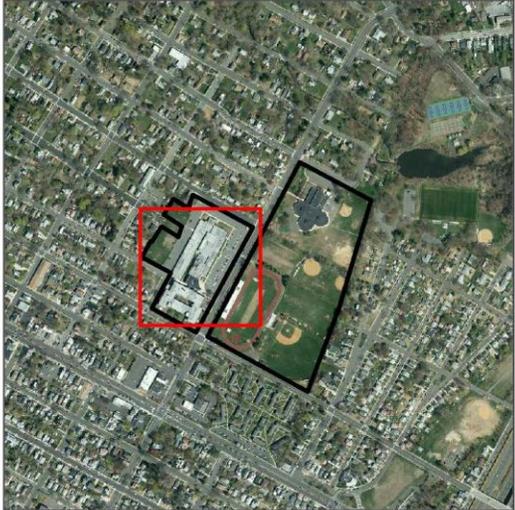
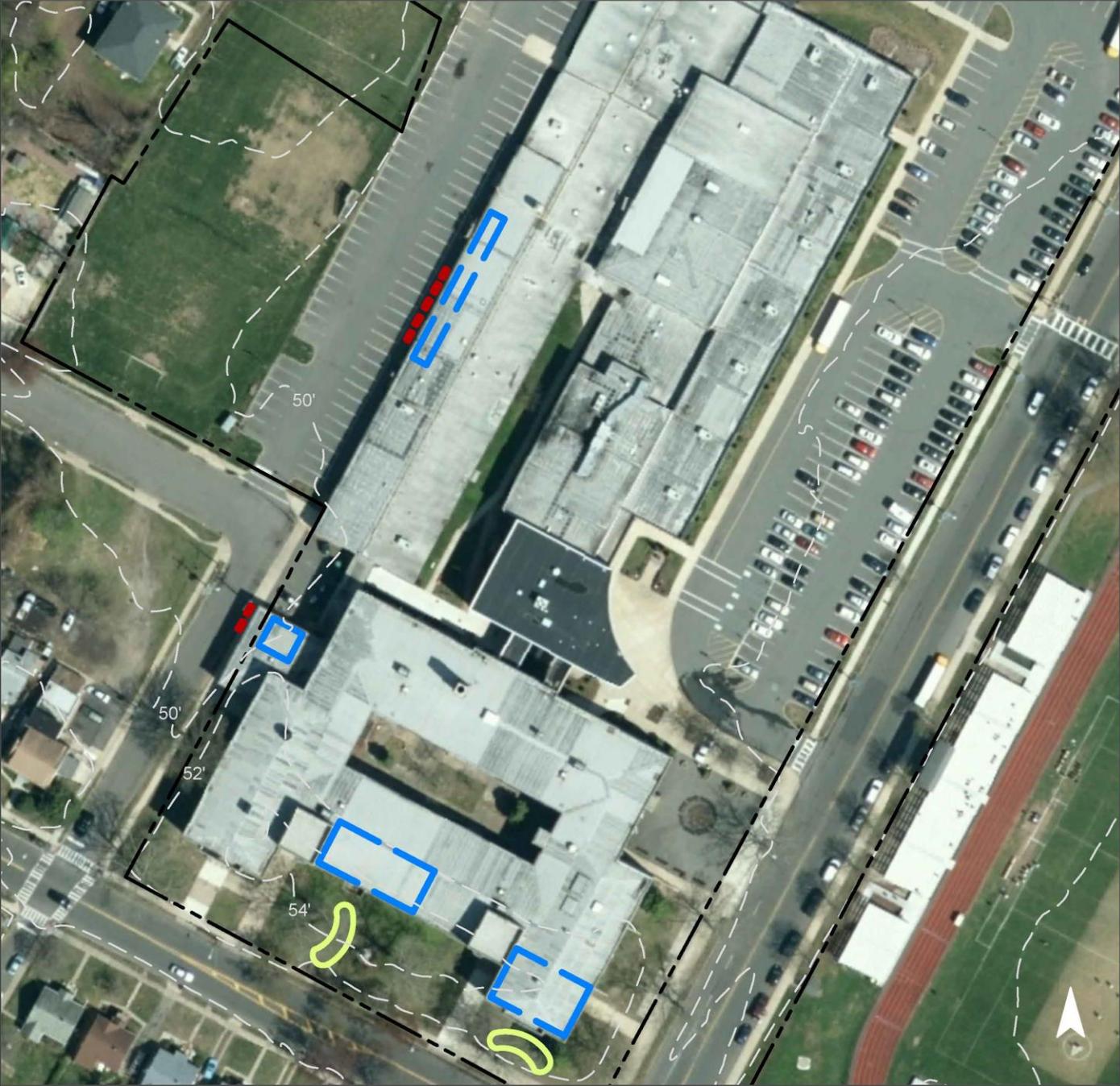


Bioretention systems can be installed to capture, treat, and infiltrate rooftop runoff. Planter boxes can be constructed where disconnected downspouts are discharging stormwater into parking areas. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 78 | 296,723 | 14.3 | 149.9 | 1,362.4 | 0.231 | 8.14 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.104 | 17 | 7,640 | 0.29 | 1,000 | \$5,000 |
| Planter boxes | n/a | 6 | n/a | n/a | 7 (boxes) | \$7,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hamilton High School West

-  bioretention system
-  planter box
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



INDEPENDENCE MALL



Subwatershed: Shady Brook

Site Area: 1,113,428 sq. ft.

Address: 2496 South Broad Street
Hamilton, NJ 08610

Block and Lot: Block 2389, Lot 3,5



A bioretention system can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|-----------|---|-------|---------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 94 | 1,050,665 | 50.7 | 530.6 | 4,824.0 | 0.819 | 28.82 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.125 | 21 | 9,180 | 0.34 | 1,200 | \$6,000 |
| Pervious pavement | 1.570 | 263 | 115,190 | 4.33 | 13,815 | \$345,375 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Independence Mall

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



K MCCOY INC. INSURANCE AGENCY



Subwatershed: Shady Brook

Site Area: 30,764 sq. ft.

Address: 1878 Arena Drive
Hamilton, NJ 08610

Block and Lot: Block 2531, Lot 1

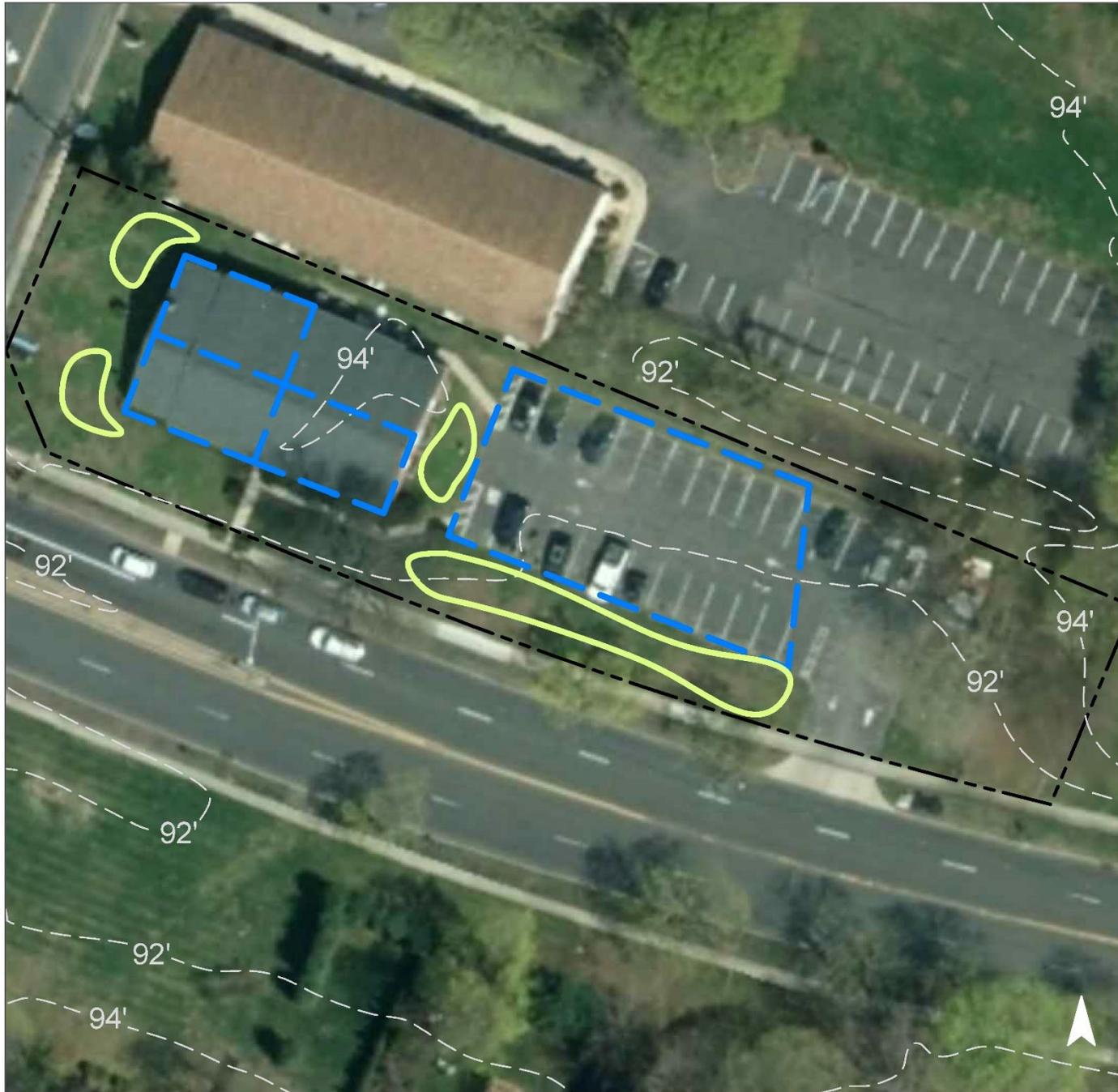


Bioretention systems can be installed to capture, treat, and infiltrate parking lot and roof runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 65 | 19,997 | 1.0 | 10.1 | 91.8 | 0.016 | 0.55 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.261 | 44 | 19,120 | 0.72 | 2,515 | \$12,575 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



K McCoy Inc. Insurance Agency

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



KISTHARDT ELEMENTARY SCHOOL



Subwatershed: Shady Brook

Site Area: 203,419 sq. ft.

Address: 215 Harcourt Drive
Hamilton, NJ 08610

Block and Lot: Block 2411, Lot 13



A bioretention system can be installed to capture, treat, and infiltrate runoff from the roof and paved playground. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 41 | 84,386 | 4.1 | 42.6 | 387.4 | 0.066 | 2.31 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.017 | 3 | 1,240 | 0.05 | 165 | \$825 |
| Pervious pavement | 0.307 | 51 | 22,560 | 0.85 | 2,880 | \$72,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Kisthardt Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



LALOR ELEMENTARY SCHOOL



Subwatershed: Shady Brook

Site Area: 129,800 sq. ft.

Address: 25 Barnt Deklyn Road
Hamilton, NJ 08610

Block and Lot: Block 2212, Lot 1



Bioretention systems can be installed to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Planter boxes can be constructed around the perimeter of the building to allow roof runoff to be reused. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 42 | 54,848 | 2.6 | 27.7 | 251.8 | 0.043 | 1.50 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.060 | 10 | 4,410 | 0.17 | 580 | \$2,900 |
| Pervious pavement | 0.106 | 18 | 7,740 | 0.29 | 975 | \$24,375 |
| Planter boxes | n/a | 3 | n/a | n/a | 4 (boxes) | \$4,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Lalor Elementary School

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS



LIFE ST. FRANCIS



Subwatershed: Shady Brook

Site Area: 25,000 sq. ft.

Address: 1435 Liberty Street
Hamilton, NJ 08610

Block and Lot: Block 2033, Lot 1

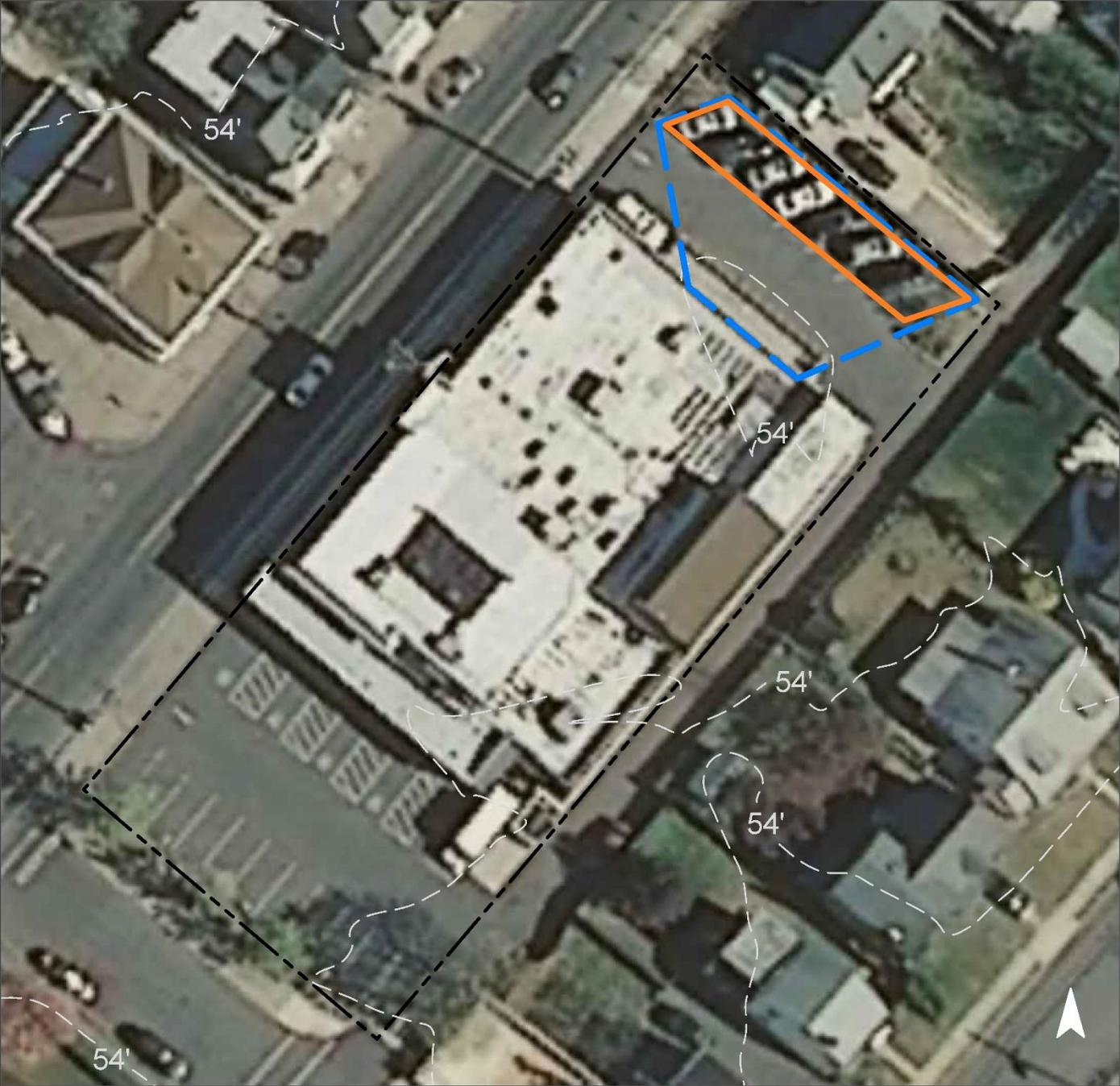


A row of parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 90 | 22,500 | 1.1 | 11.4 | 103.3 | 0.018 | 0.62 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Pervious pavement | 0.081 | 14 | 5,960 | 0.22 | 1,400 | \$35,000 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Life St. Francis

-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



MCGALLIARD ELEMENTARY SCHOOL



Subwatershed: Shady Brook

Site Area: 437,779 sq. ft.

Address: 1600 Arena Drive
Hamilton, NJ 08610

Block and Lot: Block 2474, Lot 48

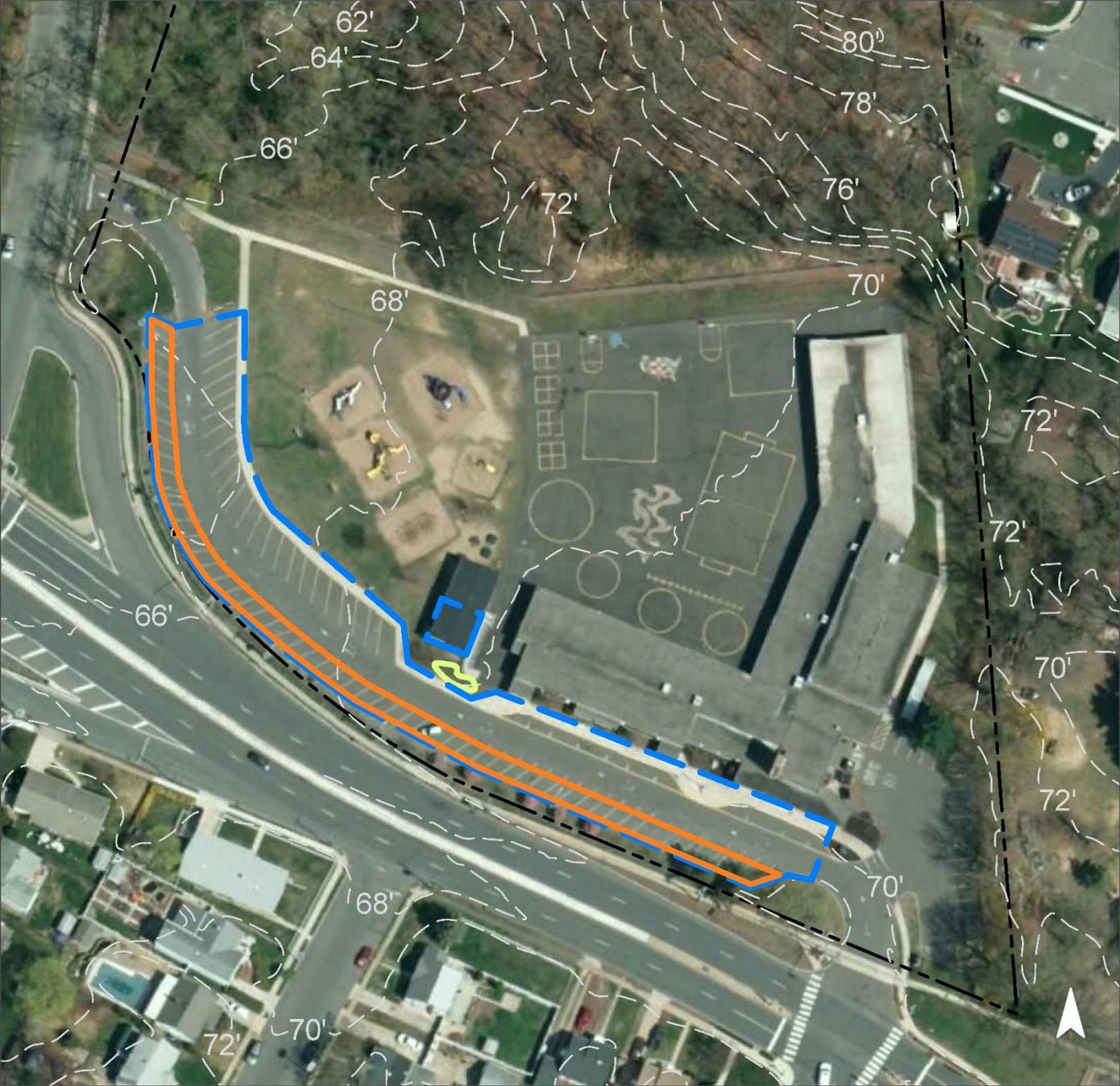


A bioretention system can be installed near the trailer building to capture, treat, and infiltrate roof runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 33 | 145,044 | 7.0 | 73.3 | 665.9 | 0.113 | 3.98 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.020 | 3 | 1,500 | 0.06 | 200 | \$1,000 |
| Pervious pavement | 0.858 | 144 | 62,970 | 2.37 | 9,970 | \$249,250 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



McGalliard Elementary School

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



RUSLING HOSE FIRE COMPANY



Subwatershed: Shady Brook

Site Area: 41,181 sq. ft.

Address: 13 Rennie Street
Hamilton, NJ 08610

Block and Lot: Block 2302, Lot 1



A bioretention system can be installed near the front of the building to capture, treat, and infiltrate street runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 75 | 30,885 | 1.5 | 15.6 | 141.8 | 0.024 | 0.85 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.152 | 26 | 11,180 | 0.42 | 1,465 | \$7,325 |
| Pervious pavement | 0.242 | 40 | 17,750 | 0.67 | 2,285 | \$57,125 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



Rusling Hose Fire Company

-  bioretention system
-  pervious pavement
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



ST. MARK LUTHERAN CHURCH



Subwatershed: Shady Brook

Site Area: 45,290 sq. ft.

Address: 350 White Horse Avenue
Hamilton, NJ 08610

Block and Lot: Block 2493, Lot 7,8,9,10



Bioretention systems can be installed to capture, treat, and infiltrate parking lot runoff. Parking spaces can be replaced with pervious pavement to capture and infiltrate stormwater. Additional rainwater can be harvested by installing a second rain barrel or small cistern on the shed near the raised garden beds. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 40 | 32,042 | 1.5 | 16.2 | 147.1 | 0.025 | 0.88 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention systems | 0.075 | 12 | 5,480 | 0.21 | 720 | \$3,600 |
| Pervious pavement | 0.499 | 84 | 36,610 | 1.38 | 3,420 | \$85,500 |
| Rainwater harvesting | 0.003 | 0 | 100 | 0.01 | 100 (gal) | \$200 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. Mark Lutheran Church

-  bioretention system
-  pervious pavement
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



TRUE SERVANT PRESCHOOL ACADEMY



Subwatershed: Shady Brook

Site Area: 34,069 sq. ft.

Address: 2630 South Broad Street
Hamilton, NJ 08610

Block and Lot: Block 2423, Lot 2, 24



A bioretention system can be installed near the front of the building by using a trench drain to capture, treat, and infiltrate street runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

| Impervious Cover | | Existing Loads from Impervious Cover (lbs/yr) | | | Runoff Volume from Impervious Cover (Mgal) | |
|------------------|---------|---|------|-------|--|-------------------------------|
| % | sq. ft. | TP | TN | TSS | For the 1.25" Water Quality Storm | For an Annual Rainfall of 44" |
| 89 | 30,209 | 1.5 | 15.3 | 138.7 | 0.024 | 0.83 |

| Recommended Green Infrastructure Practices | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Maximum Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cu. ft./second) | Estimated Size (sq. ft.) | Estimated Cost |
|--|------------------------------|--------------------------------|--|---|--------------------------|----------------|
| Bioretention system | 0.156 | 26 | 11,470 | 0.43 | 550 | \$2,750 |

GREEN INFRASTRUCTURE RECOMMENDATIONS



True Servant Preschool Academy

-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS



Attachment 2

Summary of Existing Conditions

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|---------------|------------------|-------|----------|--------|------------------|----------------|------------------------------------|--------------|----------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| ASSUNPINK CREEK SUBWATERSHED | 70.51 | 3,071,259 | | | | 1,875,191 | 43.05 | 90.4 | 947.1 | 8,609.7 | 1.461 | 51.43 |
| 1 BLV Holding Company Inc. Total Site Info | 2.94 | 128,109 | 1581 | 13, 14 | 60 | 76,494 | 1.76 | 3.7 | 38.6 | 351.2 | 0.060 | 2.10 |
| 2 Cornell Heights Field Total Site Info | 4.77 | 207,769 | 1535 | 19 | 24 | 49,319 | 1.13 | 2.4 | 24.9 | 226.4 | 0.038 | 1.35 |
| 3 Ibis Plaza Office Suites Total Site Info | 8.34 | 363,367 | 1521 | 113, 114 | 86 | 313,593 | 7.20 | 15.1 | 158.4 | 1,439.8 | 0.244 | 8.60 |
| 4 Medallion Care Total Site Info | 16.73 | 728,833 | 1505 | 9 | 45 | 325,970 | 7.48 | 15.7 | 164.6 | 1,496.6 | 0.254 | 8.94 |
| 5 Siemens Industry & Delaval Turbomachinery Total Site Info | 37.72 | 1,643,180 | 1517 | 1 | 68 | 1,109,814 | 25.48 | 53.5 | 560.5 | 5,095.6 | 0.865 | 30.44 |
| BACK CREEK SUBWATERSHED | 120.52 | 5,249,690 | | | | 1,736,491 | 39.86 | 83.7 | 877.0 | 7,972.9 | 1.353 | 47.63 |
| 6 AAA Mid Atlantic Total Site Info | 21.23 | 924,624 | 2612 | 5.02 | 30 | 276,011 | 6.34 | 13.3 | 139.4 | 1,267.3 | 0.215 | 7.57 |
| 7 Abandon Restaurant Total Site Info | 1.82 | 79,478 | 2686 | 1, 2 | 82 | 65,161 | 1.50 | 3.1 | 32.9 | 299.2 | 0.051 | 1.79 |
| 8 Caola Company Total Site Info | 2.18 | 94,850 | 2591 | 14 | 53 | 50,019 | 1.15 | 2.4 | 25.3 | 229.7 | 0.039 | 1.37 |
| 9 Crockett Middle School Total Site Info | 40.22 | 1,751,814 | 2592 | 2 | 14 | 252,991 | 5.81 | 12.2 | 127.8 | 1,161.6 | 0.197 | 6.94 |
| 10 Custom Calibrations Solutions, LLC Total Site Info | 4.62 | 201,089 | 2712 | 130 | 40 | 81,426 | 1.87 | 3.9 | 41.1 | 373.9 | 0.063 | 2.23 |
| 11 Hamilton Medical Arts Total Site Info | 4.20 | 182,831 | 2591 | 7 | 66 | 121,379 | 2.79 | 5.9 | 61.3 | 557.3 | 0.095 | 3.33 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|---------------|------------------|---------|------------|-----------|----------------------|----------------------|------------------------------------|---------------|----------------|---|------------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| 12 Kleinfelder Total Site Info | 7.11 | 309,617 | 2597 | 13 | 40 | 124,614 | 2.86 | 6.0 | 62.9 | 572.2 | 0.097 | 3.42 |
| 13 S. T. Peterson & Co. Inc. Office Space Total Site Info | 7.01 | 305,378 | 2597 | 14 | 38 | 116,632 | 2.68 | 5.6 | 58.9 | 535.5 | 0.091 | 3.20 |
| 14 Skylink Technologies Total Site Info | 1.61 | 69,930 | 2597.01 | 5 | 89 | 62,020 | 1.42 | 3.0 | 31.3 | 284.8 | 0.048 | 1.70 |
| 15 Verizon Total Site Info | 20.84 | 907,720 | 2612 | 5.07, 5.08 | 48 | 431,354 | 9.90 | 20.8 | 217.9 | 1,980.5 | 0.336 | 11.83 |
| 16 York Risk Services Total Site Info | 9.70 | 422,358 | 2597.01 | 1 | 37 | 154,883 | 3.56 | 7.5 | 78.2 | 711.1 | 0.121 | 4.25 |
| CROSSWICKS CREEK SUBWATERSHED | 146.16 | 6,366,857 | | | | 1,243,006 | 28.54 | 59.9 | 627.8 | 5,707.1 | 0.969 | 34.09 |
| 17 Grow-Ville Community Day School Total Site Info | 0.70 | 30,612 | 2661 | 24, 26 | 85 | 26,020 | 0.60 | 1.3 | 13.1 | 119.5 | 0.020 | 0.71 |
| 18 Robinson Elementary School Total Site Info | 9.38 | 408,677 | 2548 | 17, 18, 19 | 28 | 113,018 | 2.59 | 5.4 | 57.1 | 518.9 | 0.088 | 3.10 |
| 19 St. Raphael-Holy Angels Parish Total Site Info | 14.03 | 611,220 | 2542 | 30, 32 | 48 | 293,454 | 6.74 | 14.1 | 148.2 | 1,347.4 | 0.229 | 8.05 |
| 20 Sunnybrae Elementary School Total Site Info | 6.75 | 294,171 | 2606 | 126 | 26 | 75,555 | 1.73 | 3.6 | 38.2 | 346.9 | 0.059 | 2.07 |
| 21 Sunnybrae League Park Total Site Info | 26.14 | 1,138,686 | 2606 | 96, 98 | 8 | 96,109 | 2.21 | 4.6 | 48.5 | 441.3 | 0.075 | 2.64 |
| 22 Switlik Park Total Site Info | 18.54 | 807,435 | 2614 | 130 | 15 | 122,463 | 2.81 | 5.9 | 61.8 | 562.3 | 0.095 | 3.36 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|---------------|------------------|-------|----------------|--------|------------------|----------------|------------------------------------|---------------|-----------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| 23 The Stone Terrace Total Site Info | 12.12 | 527,979 | 2575 | 161 | 35 | 186,118 | 4.27 | 9.0 | 94.0 | 854.5 | 0.145 | 5.10 |
| 24 Yardville Heights Elementary School Total Site Info | 5.60 | 244,009 | 2606 | 15 | 43 | 103,719 | 2.38 | 5.0 | 52.4 | 476.2 | 0.081 | 2.84 |
| 25 YMCA Total Site Info | 52.89 | 2,304,067 | 2730 | 14.01 | 10 | 226,550 | 5.20 | 10.9 | 114.4 | 1,040.2 | 0.177 | 6.21 |
| DOCTORS CREEK SUBWATERSHED | 16.61 | 723,410 | | | | 191,542 | 4.40 | 9.2 | 96.7 | 879.4 | 0.149 | 5.25 |
| 26 St. George Ukrainian Orthodox Church Total Site Info | 12.31 | 536,154 | 2724 | 82 | 20 | 109,828 | 2.52 | 5.3 | 55.5 | 504.3 | 0.086 | 3.01 |
| 27 Yardville Elementary School Total Site Info | 4.30 | 187,256 | 2699 | 1 | 44 | 81,714 | 1.88 | 3.9 | 41.3 | 375.2 | 0.064 | 2.24 |
| MIRY RUN SUBWATERSHED | 120.89 | 5,265,901 | | | | 2,306,287 | 52.95 | 111.2 | 1164.8 | 10,589.0 | 1.797 | 63.25 |
| 28 Christ Presbyterian Church Total Site Info | 3.27 | 142,625 | 1656 | 58 | 23 | 32,397 | 0.74 | 1.6 | 16.4 | 148.7 | 0.025 | 0.89 |
| 29 Clover Square Total Site Info | 20.38 | 887,560 | 1603 | 19 | 81 | 721,004 | 16.55 | 34.8 | 364.1 | 3,310.4 | 0.562 | 19.77 |
| 30 Enterprise Volunteer Fire Co. Total Site Info | 1.14 | 49,506 | 1648 | 12, 16 | 88 | 43,673 | 1.00 | 2.1 | 22.1 | 200.5 | 0.034 | 1.20 |
| 31 First Pentecostal Prayer of Faith Church Total Site Info | 0.81 | 35,411 | 1836 | 34 | 87 | 30,651 | 0.70 | 1.5 | 15.5 | 140.7 | 0.024 | 0.84 |
| 32 First Presbyterian Church/YMCA Young Wonders Total Site Info | 1.96 | 85,330 | 1830 | 20, 50, 51, 52 | 81 | 68,988 | 1.58 | 3.3 | 34.8 | 316.7 | 0.054 | 1.89 |
| 33 H.D. Morrison Elementary School (University Heights) Total Site Info | 12.91 | 562,187 | 1561 | 13, 24, 25 | 22 | 126,391 | 2.90 | 6.1 | 63.8 | 580.3 | 0.098 | 3.47 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|-----------|-----------|-------|-------------|--------|----------------|----------------|------------------------------------|------------|-------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| 34 Hamilton Square Baptist Church Total Site Info | 3.60 | 156,832 | 1839 | 87 | 44 | 68,505 | 1.57 | 3.3 | 34.6 | 314.5 | 0.053 | 1.88 |
| 35 Hamilton Township School District Total Site Info | 1.30 | 56,745 | 1836 | 6, 8 | 87 | 49,126 | 1.13 | 2.4 | 24.8 | 225.6 | 0.038 | 1.35 |
| 36 Klockner Elementary School Total Site Info | 2.36 | 102,765 | 1659 | 2, 3 | 48 | 49,185 | 1.13 | 2.4 | 24.8 | 225.8 | 0.038 | 1.35 |
| 37 Merlin Industries Inc. Total Site Info | 21.48 | 935,824 | 1602 | 7 | 22 | 203,182 | 4.66 | 9.8 | 102.6 | 932.9 | 0.158 | 5.57 |
| 38 Morgan Elementary School Total Site Info | 8.48 | 369,401 | 1618 | 34, 40 | 35 | 129,743 | 2.98 | 6.3 | 65.5 | 595.7 | 0.101 | 3.56 |
| 39 Nottingham Little League Total Site Info | 14.14 | 615,843 | 1722 | 95, 96, 105 | 21 | 127,290 | 2.92 | 6.1 | 64.3 | 584.4 | 0.099 | 3.49 |
| 40 Nottingham Volunteer Fire Company Station 17 Total Site Info | 3.52 | 153,281 | 1839 | 24.01 | 93 | 141,848 | 3.26 | 6.8 | 71.6 | 651.3 | 0.111 | 3.89 |
| 41 Our Lady of Sorrows School Total Site Info | 11.88 | 517,440 | 1666 | 80 | 42 | 219,134 | 5.03 | 10.6 | 110.7 | 1,006.1 | 0.171 | 6.01 |
| 42 Saint Mark United Methodist Church Total Site Info | 6.52 | 284,082 | 1622 | 8 | 40 | 113,873 | 2.61 | 5.5 | 57.5 | 522.8 | 0.089 | 3.12 |
| 43 University Plaza Total Site Info | 3.85 | 167,756 | 1551 | 16 | 72 | 120,521 | 2.77 | 5.8 | 60.9 | 553.4 | 0.094 | 3.31 |
| 44 VFW Hamilton Township Post Total Site Info | 3.29 | 143,315 | 1660 | 25, 26 | 42 | 60,776 | 1.40 | 2.9 | 30.7 | 279.0 | 0.047 | 1.67 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|---------------|-------------------|-------|-----------------|--------|------------------|----------------|------------------------------------|---------------|-----------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| POND RUN SUBWATERSHED | 279.66 | 12,181,921 | | | | 3,725,758 | 85.53 | 179.6 | 1881.7 | 17,106.3 | 2.903 | 102.19 |
| 45 Alexander Elementary School Total Site Info | 12.09 | 526,633 | 1980 | 20 | 24 | 128,186 | 2.94 | 6.2 | 64.7 | 588.6 | 0.100 | 3.52 |
| 46 Bromley Park Total Site Info | 5.05 | 219,967 | 1733 | 7 | 14 | 29,780 | 0.68 | 1.4 | 15.0 | 136.7 | 0.023 | 0.82 |
| 47 Colonial Volunteer Fire Company Total Site Info | 7.45 | 324,471 | 2154 | 4 | 49 | 158,286 | 3.63 | 7.6 | 79.9 | 726.8 | 0.123 | 4.34 |
| 48 Greenwood Elementary School Total Site Info | 1.91 | 83,373 | 1884 | 1 | 89 | 74,555 | 1.71 | 3.6 | 37.7 | 342.3 | 0.058 | 2.04 |
| 49 Hamilton Golf Center Total Site Info | 70.62 | 3,076,264 | 2163 | 5, 8 | 6 | 198,955 | 4.57 | 9.6 | 100.5 | 913.5 | 0.155 | 5.46 |
| 50 Hamilton Lanes Total Site Info | 5.52 | 240,604 | 2163 | 9 | 67 | 162,114 | 3.72 | 7.8 | 81.9 | 744.3 | 0.126 | 4.45 |
| 51 Hamilton Township Municipal Building Total Site Info | 10.03 | 436,805 | 1757 | 24 | 38 | 164,366 | 3.77 | 7.9 | 83.0 | 754.7 | 0.128 | 4.51 |
| 52 Hamilton Township Library Total Site Info | 8.06 | 350,879 | 2163 | 6 | 34 | 118,144 | 2.71 | 5.7 | 59.7 | 542.4 | 0.092 | 3.24 |
| 53 Hamilton Township Police Division Total Site Info | 9.64 | 419,914 | 2163 | 7 | 52 | 218,343 | 5.01 | 10.5 | 110.3 | 1,002.5 | 0.170 | 5.99 |
| 54 Kuser Elementary School Total Site Info | 2.62 | 114,206 | 2023 | 31, 32, 42 43 | 67 | 76,683 | 1.76 | 3.7 | 38.7 | 352.1 | 0.060 | 2.10 |
| 55 Langtree Elementary School Total Site Info | 15.59 | 679,288 | 1925 | 19 | 13 | 88,838 | 2.04 | 4.3 | 44.9 | 407.9 | 0.069 | 2.44 |
| 56 Mercerville Elementary School Total Site Info | 4.53 | 197,433 | 1694 | 27, 28 , 29, 30 | 58 | 113,776 | 2.61 | 5.5 | 57.5 | 522.4 | 0.089 | 3.12 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|---|---------------|------------------|-------|----------|--------|------------------|----------------|------------------------------------|---------------|-----------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| 57 Pace Charter School Total Site Info | 2.03 | 88,487 | 1917 | 4 | 46 | 40,404 | 0.93 | 1.9 | 20.4 | 185.5 | 0.031 | 1.11 |
| 58 Reynolds Middle School Total Site Info | 28.35 | 1,235,105 | 1943 | 5 | 23 | 284,929 | 6.54 | 13.7 | 143.9 | 1,308.2 | 0.222 | 7.81 |
| 59 Sayen Elementary School Total Site Info | 12.37 | 538,634 | 1828 | 14 | 15 | 80,043 | 1.84 | 3.9 | 40.4 | 367.5 | 0.062 | 2.20 |
| 60 St. Gregory the Great Catholic Church Total Site Info | 15.23 | 663,284 | 1841 | 182, 183 | 51 | 338,012 | 7.76 | 16.3 | 170.7 | 1,551.9 | 0.263 | 9.27 |
| 61 Suburban Plaza (Walmart) Total Site Info | 24.29 | 1,058,104 | 1589 | 167, 168 | 88 | 925,875 | 21.26 | 44.6 | 467.6 | 4,251.0 | 0.721 | 25.39 |
| 62 Trenton Catholic Academy Total Site Info | 35.86 | 1,562,067 | 2154 | 1.01, 2 | 14 | 213,685 | 4.91 | 10.3 | 107.9 | 981.1 | 0.166 | 5.86 |
| 63 Whitehorse Plaza Shopping Center Total Site Info | 8.41 | 366,404 | 1922 | 7 | 85 | 310,784 | 7.13 | 15.0 | 157.0 | 1,426.9 | 0.242 | 8.52 |
| SHADY BROOK SUBWATERSHED | 123.85 | 5,394,812 | | | | 2,406,053 | 55.24 | 116.0 | 1215.2 | 11,047.1 | 1.875 | 65.99 |
| 64 Aldi Total Site Info | 4.01 | 174,577 | 2451 | 2 | 79 | 138,254 | 3.17 | 6.7 | 69.8 | 634.8 | 0.108 | 3.79 |
| 65 Duetzville Park Total Site Info | 19.49 | 848,988 | 2187 | 3, 4 | 10 | 81,162 | 1.86 | 3.9 | 41.0 | 372.6 | 0.063 | 2.23 |
| 66 George E. Wilson Elementary School Total Site Info | 21.38 | 931,393 | 2379 | 1, 31 | 15 | 139,279 | 3.20 | 6.7 | 70.3 | 639.5 | 0.109 | 3.82 |
| 67 Grice Middle School Total Site Info | 21.91 | 954,219 | 2445 | 21, 51 | 26 | 244,895 | 5.62 | 11.8 | 123.7 | 1,124.4 | 0.191 | 6.72 |

Summary of Existing Conditions

| Subwatershed/Site Name/Total Site Info/GI Practice | Area (ac) | Area (SF) | Block | Lot | I.C. % | I.C. Area (ac) | I.C. Area (SF) | Existing Annual Loads (Commercial) | | | Runoff Volumes from I.C. | |
|--|-----------|-----------|-------|-------------|--------|----------------|----------------|------------------------------------|------------|-------------|---|---------------|
| | | | | | | | | TP (lb/yr) | TN (lb/yr) | TSS (lb/yr) | Water Quality Storm (1.25" over 2-hours) (Mgal) | Annual (Mgal) |
| | | | | | | | | | | | | |
| 68 Hamilton Educational Program Total Site Info | 0.98 | 42,765 | 2362 | 1 | 82 | 35,165 | 0.81 | 1.7 | 17.8 | 161.5 | 0.027 | 0.96 |
| 69 Hamilton High School West Total Site Info | 8.77 | 382,143 | 2346 | 1-3,17-25 | 78 | 296,723 | 6.81 | 14.3 | 149.9 | 1,362.4 | 0.231 | 8.14 |
| 70 Independence Mall Total Site Info | 25.56 | 1,113,428 | 2389 | 3, 5 | 94 | 1,050,665 | 24.12 | 50.7 | 530.6 | 4,824.0 | 0.819 | 28.82 |
| 71 K McCoy Inc. Insurance Agency Total Site Info | 0.71 | 30,764 | 2531 | 1 | 65 | 19,997 | 0.46 | 1.0 | 10.1 | 91.8 | 0.016 | 0.55 |
| 72 Kisthardt Elementary School Total Site Info | 4.67 | 203,419 | 2411 | 13 | 41 | 84,386 | 1.94 | 4.1 | 42.6 | 387.4 | 0.066 | 2.31 |
| 73 Lalor Elementary School Total Site Info | 2.98 | 129,800 | 2212 | 1 | 42 | 54,848 | 1.26 | 2.6 | 27.7 | 251.8 | 0.043 | 1.50 |
| 74 Life St. Francis Total Site Info | 0.57 | 25,000 | 2033 | 1 | 90 | 22,500 | 0.52 | 1.1 | 11.4 | 103.3 | 0.018 | 0.62 |
| 75 McGalliard Elementary School Total Site Info | 10.05 | 437,779 | 2474 | 48 | 33 | 145,044 | 3.33 | 7.0 | 73.3 | 665.9 | 0.113 | 3.98 |
| 76 Rusling Hose Fire Company Total Site Info | 0.95 | 41,181 | 2302 | 1 | 75 | 30,885 | 0.71 | 1.5 | 15.6 | 141.8 | 0.024 | 0.85 |
| 77 St. Mark Lutheran Church Total Site Info | 1.04 | 45,290 | 2493 | 7, 8, 9, 10 | 71 | 32,042 | 0.74 | 1.5 | 16.2 | 147.1 | 0.025 | 0.88 |
| 78 True Servant Preschool Academy Total Site Info | 0.78 | 34,069 | 2423 | 24 | 89 | 30,209 | 0.69 | 1.5 | 15.3 | 138.7 | 0.024 | 0.83 |

Attachment 3

Summary of Proposed Green Infrastructure Practices

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|--------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| ASSUNPINK CREEK SUBWATERSHED | 135,145 | 3.10 | 3.521 | 589 | 258,380 | 9.71 | | | | \$814,625 | 7.2% |
| 1 BLV Holding Company Inc. | | | | | | | | | | | |
| Bioretention system | 1,600 | 0.04 | 0.042 | 7 | 3,060 | 0.11 | 400 | \$5 | SF | \$2,000 | 2.1% |
| Pervious pavement | 16,785 | 0.39 | 0.437 | 73 | 32,090 | 1.21 | 5,080 | \$25 | SF | \$127,000 | 21.9% |
| Total Site Info | 18,385 | 0.42 | 0.479 | 80 | 35,150 | 1.32 | | | | \$129,000 | 24.0% |
| 2 Cornell Heights Field | | | | | | | | | | | |
| Bioretention systems | 15,200 | 0.35 | 0.396 | 66 | 29,060 | 1.09 | 3,850 | \$5 | SF | \$19,250 | 30.8% |
| Total Site Info | 15,200 | 0.35 | 0.396 | 66 | 29,060 | 1.09 | | | | \$19,250 | 30.8% |
| 3 Ibis Plaza Office Suites | | | | | | | | | | | |
| Pervious pavement | 46,065 | 1.06 | 1.200 | 201 | 88,070 | 3.31 | 11,380 | \$25 | SF | \$284,500 | 14.7% |
| Total Site Info | 46,065 | 1.06 | 1.200 | 201 | 88,070 | 3.31 | | | | \$284,500 | 14.7% |
| 4 Medallion Care | | | | | | | | | | | |
| Pervious pavement | 27,795 | 0.64 | 0.724 | 121 | 53,140 | 2.00 | 8,250 | \$25 | SF | \$206,250 | 8.5% |
| Total Site Info | 27,795 | 0.64 | 0.724 | 121 | 53,140 | 2.00 | | | | \$206,250 | 8.5% |
| 5 Siemens Industry & Delaval Turbomachinery | | | | | | | | | | | |
| Bioretention system | 6,700 | 0.15 | 0.175 | 29 | 12,810 | 0.48 | 1,675 | \$5 | SF | \$8,375 | 0.6% |
| Pervious pavement | 21,000 | 0.48 | 0.547 | 92 | 40,150 | 1.51 | 6,690 | \$25 | SF | \$167,250 | 1.9% |
| Total Site Info | 27,700 | 0.64 | 0.722 | 121 | 52,960 | 1.99 | | | | \$175,625 | 2.5% |
| BACK CREEK SUBWATERSHED | 554,920 | 12.74 | 14.450 | 2,420 | 1,060,300 | 39.84 | | | | \$2,891,250 | 32.0% |
| 6 AAA Mid Atlantic | | | | | | | | | | | |
| Bioretention system | 5,900 | 0.14 | 0.154 | 26 | 11,280 | 0.42 | 1,475 | \$5 | SF | \$7,375 | 2.1% |
| Pervious pavement | 105,850 | 2.43 | 2.758 | 462 | 202,370 | 7.60 | 26,850 | \$25 | SF | \$671,250 | 38.3% |
| Total Site Info | 111,750 | 2.57 | 2.912 | 487 | 213,650 | 8.02 | | | | \$678,625 | 40.5% |
| 7 Abandon Restaurant | | | | | | | | | | | |
| Pervious pavement | 16,450 | 0.38 | 0.429 | 72 | 31,450 | 1.18 | 3,720 | \$25 | SF | \$93,000 | 25.2% |
| Total Site Info | 16,450 | 0.38 | 0.429 | 72 | 31,450 | 1.18 | | | | \$93,000 | 25.2% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 8 Caola Company | | | | | | | | | | | |
| Bioretention system | 6,200 | 0.14 | 0.162 | 27 | 11,860 | 0.45 | 1,550 | \$5 | SF | \$7,750 | 12.4% |
| Pervious pavement | 12,900 | 0.30 | 0.336 | 56 | 24,660 | 0.93 | 3,755 | \$25 | SF | \$93,875 | 25.8% |
| Total Site Info | 19,100 | 0.44 | 0.498 | 83 | 36,520 | 1.38 | | | | \$101,625 | 38.2% |
| 9 Crockett Middle School | | | | | | | | | | | |
| Bioretention systems | 20,500 | 0.47 | 0.534 | 89 | 39,200 | 1.47 | 5,130 | \$5 | SF | \$25,650 | 8.1% |
| Total Site Info | 20,500 | 0.47 | 0.534 | 89 | 39,200 | 1.47 | | | | \$25,650 | 8.1% |
| 10 Custom Calibrations Solutions, LLC | | | | | | | | | | | |
| Bioretention system | 12,000 | 0.28 | 0.313 | 52 | 22,940 | 0.86 | 3,000 | \$5 | SF | \$15,000 | 14.7% |
| Pervious pavement | 41,655 | 0.96 | 1.085 | 182 | 79,640 | 2.99 | 8,680 | \$25 | SF | \$217,000 | 51.2% |
| Planter box (downspout) | 325 | 0.01 | n/a | 1 | n/a | n/a | 3 | \$1,000 | box | \$3,000 | 0.4% |
| Total Site Info | 53,980 | 1.24 | 1.398 | 235 | 102,580 | 3.85 | | | | \$235,000 | 66.3% |
| 11 Hamilton Medical Arts | | | | | | | | | | | |
| Pervious pavement | 30,875 | 0.71 | 0.804 | 135 | 59,020 | 2.22 | 6,970 | \$25 | SF | \$174,250 | 25.4% |
| Total Site Info | 30,875 | 0.71 | 0.804 | 135 | 59,020 | 2.22 | | | | \$174,250 | 25.4% |
| 12 Kleinfelder | | | | | | | | | | | |
| Bioretention system | 2,500 | 0.06 | 0.065 | 11 | 4,780 | 0.18 | 625 | \$5 | SF | \$3,125 | 2.0% |
| Pervious pavement | 46,065 | 1.06 | 1.200 | 201 | 88,070 | 3.31 | 11,380 | \$25 | SF | \$284,500 | 37.0% |
| Total Site Info | 48,565 | 1.11 | 1.265 | 212 | 92,850 | 3.49 | | | | \$287,625 | 39.0% |
| 13 S. T. Peterson & Co. Inc. Office Space | | | | | | | | | | | |
| Bioretention system | 4,420 | 0.10 | 0.115 | 19 | 8,450 | 0.32 | 1,120 | \$5 | SF | \$5,600 | 3.8% |
| Pervious pavement | 18,500 | 0.42 | 0.482 | 81 | 35,370 | 1.33 | 4,100 | \$25 | SF | \$102,500 | 15.9% |
| Total Site Info | 22,920 | 0.53 | 0.597 | 100 | 43,820 | 1.65 | | | | \$108,100 | 19.7% |
| 14 Skylink Technologies | | | | | | | | | | | |
| Bioretention system | 2,000 | 0.05 | 0.052 | 9 | 3,820 | 0.14 | 500 | \$5 | SF | \$2,500 | 3.2% |
| Total Site Info | 2,000 | 0.05 | 0.052 | 9 | 3,820 | 0.14 | | | | \$2,500 | 3.2% |
| 15 Verizon | | | | | | | | | | | |
| Pervious pavement | 190,550 | 4.37 | 4.965 | 831 | 364,300 | 13.69 | 40,880 | \$25 | SF | \$1,022,000 | 44.2% |
| Total Site Info | 190,550 | 4.37 | 4.965 | 831 | 364,300 | 13.69 | | | | \$1,022,000 | 44.2% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 16 York Risk Services | | | | | | | | | | | |
| Bioretention system | 7,180 | 0.16 | 0.187 | 31 | 13,730 | 0.52 | 1,825 | \$5 | SF | \$9,125 | 4.6% |
| Pervious pavement | 31,050 | 0.71 | 0.809 | 135 | 59,360 | 2.23 | 6,150 | \$25 | SF | \$153,750 | 20.0% |
| Total Site Info | 38,230 | 0.88 | 0.996 | 167 | 73,090 | 2.75 | | | | \$162,875 | 24.7% |
| | | | | | | | | | | | |
| CROSSWICKS CREEK SUBWATERSHED | 347,580 | 7.98 | 8.995 | 1,514 | 660,020 | 24.82 | | | | \$1,790,875 | 28.0% |
| | | | | | | | | | | | |
| 17 Grow-Ville Community Day School | | | | | | | | | | | |
| Bioretention system | 1,220 | 0.03 | 0.032 | 5 | 2,330 | 0.09 | 305 | \$5 | SF | \$1,525 | 4.7% |
| Pervious pavement | 15,960 | 0.37 | 0.416 | 70 | 30,510 | 1.15 | 2,850 | \$25 | SF | \$71,250 | 61.3% |
| Total Site Info | 17,180 | 0.39 | 0.448 | 75 | 32,840 | 1.24 | | | | \$72,775 | 66.0% |
| | | | | | | | | | | | |
| 18 Robinson Elementary School | | | | | | | | | | | |
| Bioretention systems | 19,875 | 0.46 | 0.518 | 87 | 38,000 | 1.43 | 4,970 | \$5 | SF | \$24,850 | 17.6% |
| Pervious pavement | 15,660 | 0.36 | 0.408 | 68 | 29,940 | 1.13 | 4,790 | \$25 | SF | \$119,750 | 13.9% |
| Total Site Info | 35,535 | 0.82 | 0.926 | 155 | 67,940 | 2.56 | | | | \$144,600 | 31.4% |
| | | | | | | | | | | | |
| 19 St. Raphael-Holy Angels Parish | | | | | | | | | | | |
| Bioretention system | 4,120 | 0.09 | 0.107 | 18 | 7,880 | 0.30 | 1,035 | \$5 | SF | \$5,175 | 1.4% |
| Pervious pavement | 30,660 | 0.70 | 0.799 | 134 | 58,620 | 2.20 | 7,700 | \$25 | SF | \$192,500 | 10.4% |
| Total Site Info | 34,780 | 0.80 | 0.906 | 152 | 66,500 | 2.50 | | | | \$197,675 | 11.9% |
| | | | | | | | | | | | |
| 20 Sunnybrae Elementary School | | | | | | | | | | | |
| Bioretention system | 13,520 | 0.31 | 0.352 | 59 | 25,850 | 0.97 | 3,400 | \$5 | SF | \$17,000 | 17.9% |
| Pervious pavement | 10,150 | 0.23 | 0.264 | 44 | 19,400 | 0.73 | 4,850 | \$25 | SF | \$121,250 | 13.4% |
| Total Site Info | 23,670 | 0.54 | 0.617 | 103 | 45,250 | 1.70 | | | | \$138,250 | 31.3% |
| | | | | | | | | | | | |
| 21 Sunnybrae League Park | | | | | | | | | | | |
| Bioretention system | 2,600 | 0.06 | 0.068 | 11 | 4,970 | 0.19 | 650 | \$5 | SF | \$3,250 | 2.7% |
| Pervious pavement | 36,425 | 0.84 | 0.949 | 159 | 69,640 | 2.62 | 8,735 | \$25 | SF | \$218,375 | 37.9% |
| Total Site Info | 39,025 | 0.90 | 1.017 | 170 | 74,610 | 2.81 | | | | \$221,625 | 40.6% |
| | | | | | | | | | | | |
| 22 Switlik Park | | | | | | | | | | | |
| Bioretention system | 2,965 | 0.07 | 0.077 | 13 | 5,670 | 0.21 | 350 | \$5 | SF | \$1,750 | 2.4% |
| Pervious pavement | 55,000 | 1.26 | 1.433 | 240 | 105,150 | 3.95 | 12,150 | \$25 | SF | \$303,750 | 44.9% |
| Total Site Info | 57,965 | 1.33 | 1.510 | 253 | 110,820 | 4.16 | | | | \$305,500 | 47.3% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|--------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 23 The Stone Terrace | | | | | | | | | | | |
| Bioretention system | 2,470 | 0.06 | 0.064 | 11 | 4,720 | 0.18 | 620 | \$5 | SF | \$3,100 | 1.3% |
| Pervious pavement | 42,450 | 0.97 | 1.106 | 185 | 81,160 | 3.05 | 7,885 | \$25 | SF | \$197,125 | 22.8% |
| Planter box (downspout) | 1,500 | 0.03 | n/a | 6 | n/a | n/a | 7 | \$1,000 | box | \$7,000 | 0.8% |
| Total Site Info | 46,420 | 1.07 | 1.170 | 201 | 85,880 | 3.23 | | | | \$207,225 | 24.9% |
| 24 Yardville Heights Elementary School | | | | | | | | | | | |
| Bioretention system | 2,060 | 0.05 | 0.054 | 9 | 3,940 | 0.15 | 520 | \$5 | SF | \$2,600 | 2.0% |
| Pervious pavement | 24,365 | 0.56 | 0.635 | 106 | 46,590 | 1.75 | 5,010 | \$25 | SF | \$125,250 | 23.5% |
| Planter box (downspout) | 860 | 0.02 | n/a | 3 | n/a | n/a | 4 | \$1,000 | box | \$4,000 | 0.8% |
| Total Site Info | 27,285 | 0.63 | 0.689 | 118 | 50,530 | 1.90 | | | | \$131,850 | 26.3% |
| 25 YMCA | | | | | | | | | | | |
| Bioretention system | 9,050 | 0.21 | 0.236 | 39 | 17,300 | 0.65 | 3,250 | \$5 | SF | \$16,250 | 4.0% |
| Pervious pavement | 56,670 | 1.30 | 1.477 | 247 | 108,350 | 4.07 | 14,205 | \$25 | SF | \$355,125 | 25.0% |
| Total Site Info | 65,720 | 1.51 | 1.712 | 287 | 125,650 | 4.72 | | | | \$371,375 | 29.0% |
| DOCTORS CREEK SUBWATERSHED | 19,425 | 0.45 | 0.461 | 84 | 33,850 | 1.26 | | | | \$62,550 | 10.1% |
| 26 St. George Ukrainian Orthodox Church | | | | | | | | | | | |
| Bioretention systems | 6,185 | 0.14 | 0.161 | 27 | 11,830 | 0.44 | 1,550 | \$5 | SF | \$7,750 | 5.6% |
| Total Site Info | 6,185 | 0.14 | 0.161 | 27 | 11,830 | 0.44 | | | | \$7,750 | 5.6% |
| 27 Yardville Elementary School | | | | | | | | | | | |
| Bioretention system | 1,440 | 0.03 | 0.038 | 6 | 2,750 | 0.10 | 360 | \$5 | SF | \$1,800 | 1.8% |
| Pervious pavement | 10,080 | 0.23 | 0.263 | 44 | 19,270 | 0.72 | 1,800 | \$25 | SF | \$45,000 | 12.3% |
| Planter box (downspout) | 1,720 | 0.04 | n/a | 6 | n/a | n/a | 8 | \$1,000 | box | \$8,000 | 2.1% |
| Total Site Info | 13,240 | 0.30 | 0.300 | 57 | 22,020 | 0.82 | | | | \$54,800 | 16.2% |
| MIRY RUN SUBWATERSHED | 459,940 | 10.56 | 11.905 | 2,001 | 867,955 | 32.61 | | | | \$2,190,250 | 19.9% |
| 28 Christ Presbyterian Church | | | | | | | | | | | |
| Bioretention system | 620 | 0.01 | 0.016 | 3 | 1,180 | 0.04 | 160 | \$5 | SF | \$800 | 1.9% |
| Planter box (downspout) | 860 | 0.02 | n/a | 3 | n/a | n/a | 4 | \$1,000 | box | \$4,000 | 2.7% |
| Total Site Info | 1,480 | 0.03 | 0.016 | 6 | 1,180 | 0.04 | | | | \$4,800 | 4.6% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 29 Clover Square | | | | | | | | | | | |
| Pervious pavement | 170,810 | 3.92 | 4.451 | 745 | 326,560 | 12.27 | 34,649 | \$25 | SF | \$866,225 | 23.7% |
| Total Site Info | 170,810 | 3.92 | 4.451 | 745 | 326,560 | 12.27 | | | | \$866,225 | 23.7% |
| 30 Enterprise Volunteer Fire Co. | | | | | | | | | | | |
| Bioretention system | 1,175 | 0.03 | 0.031 | 5 | 2,240 | 0.08 | 300 | \$5 | SF | \$1,500 | 2.7% |
| Rainwater harvesting | 1,175 | 0.03 | 0.031 | 5 | 1,000 | 0.04 | 1,000 | \$2 | gal | \$2,000 | 2.7% |
| Total Site Info | 2,350 | 0.05 | 0.061 | 10 | 3,240 | 0.12 | | | | \$3,500 | 5.4% |
| 31 First Pentecostal Prayer of Faith Church | | | | | | | | | | | |
| Bioretention system | 2,700 | 0.06 | 0.070 | 12 | 5,160 | 0.19 | 675 | \$5 | SF | \$3,375 | 8.8% |
| Total Site Info | 2,700 | 0.06 | 0.070 | 12 | 5,160 | 0.19 | | | | \$3,375 | 8.8% |
| 32 First Presbyterian Church/YMCA Young Wonders | | | | | | | | | | | |
| Bioretention system | 1,330 | 0.03 | 0.035 | 6 | 2,540 | 0.10 | 335 | \$5 | SF | \$1,675 | 1.9% |
| Pervious pavement | 6,005 | 0.14 | 0.156 | 26 | 11,480 | 0.43 | 2,460 | \$25 | SF | \$61,500 | 8.7% |
| Total Site Info | 7,335 | 0.17 | 0.191 | 32 | 14,020 | 0.53 | | | | \$63,175 | 10.6% |
| 33 H.D. Morrison Elementary School (University Heights) | | | | | | | | | | | |
| Bioretention system | 3,890 | 0.09 | 0.101 | 17 | 7,440 | 0.28 | 975 | \$5 | SF | \$4,875 | 3.1% |
| Pervious pavement | 21,750 | 0.50 | 0.567 | 95 | 41,580 | 1.56 | 4,160 | \$25 | SF | \$104,000 | 17.2% |
| Total Site Info | 25,640 | 0.59 | 0.668 | 112 | 49,020 | 1.84 | | | | \$108,875 | 20.3% |
| 34 Hamilton Square Baptist Church | | | | | | | | | | | |
| Bioretention system | 2,430 | 0.06 | 0.063 | 11 | 4,650 | 0.17 | 610 | \$5 | SF | \$3,050 | 3.5% |
| Pervious pavement | 33,075 | 0.76 | 0.862 | 144 | 63,240 | 2.38 | 6,230 | \$25 | SF | \$155,750 | 48.3% |
| Total Site Info | 35,505 | 0.82 | 0.925 | 155 | 67,890 | 2.55 | | | | \$158,800 | 51.8% |
| 35 Hamilton Township School District | | | | | | | | | | | |
| Bioretention system | 3,330 | 0.08 | 0.087 | 15 | 6,370 | 0.24 | 835 | \$5 | SF | \$4,175 | 6.8% |
| Pervious pavement | 9,290 | 0.21 | 0.242 | 41 | 17,760 | 0.67 | 2,270 | \$25 | SF | \$56,750 | 18.9% |
| Total Site Info | 12,620 | 0.29 | 0.329 | 55 | 24,130 | 0.91 | | | | \$60,925 | 25.7% |
| 36 Klockner Elementary School | | | | | | | | | | | |
| Bioretention system | 960 | 0.02 | 0.025 | 4 | 1,830 | 0.07 | 240 | \$5 | SF | \$1,200 | 2.0% |
| Pervious pavement | 13,900 | 0.32 | 0.362 | 61 | 26,580 | 1.00 | 2,480 | \$25 | SF | \$62,000 | 28.3% |
| Planter box (downspout) | 645 | 0.01 | n/a | 2 | n/a | n/a | 3 | \$1,000 | box | \$3,000 | 1.3% |
| Total Site Info | 15,505 | 0.36 | 0.387 | 67 | 28,410 | 1.07 | | | | \$66,200 | 31.5% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 37 Merlin Industries Inc. | | | | | | | | | | | |
| Bioretention system | 3,330 | 0.08 | 0.087 | 15 | 6,370 | 0.24 | 835 | \$5 | SF | \$4,175 | 1.6% |
| Pervious pavement | 32,400 | 0.74 | 0.844 | 141 | 61,940 | 2.33 | 6,370 | \$25 | SF | \$159,250 | 15.9% |
| Total Site Info | 35,730 | 0.82 | 0.931 | 156 | 68,310 | 2.57 | | | | \$163,425 | 17.6% |
| 38 Morgan Elementary School | | | | | | | | | | | |
| Bioretention system | 2,550 | 0.06 | 0.066 | 11 | 4,880 | 0.18 | 640 | \$5 | SF | \$3,200 | 2.0% |
| Pervious pavement | 15,825 | 0.36 | 0.412 | 69 | 30,260 | 1.14 | 4,320 | \$25 | SF | \$108,000 | 12.2% |
| Total Site Info | 18,375 | 0.42 | 0.479 | 80 | 35,140 | 1.32 | | | | \$111,200 | 14.2% |
| 39 Nottingham Little League | | | | | | | | | | | |
| Bioretention system | 4,800 | 0.11 | 0.125 | 21 | 9,180 | 0.34 | 1,200 | \$5 | SF | \$6,000 | 3.8% |
| Bioswale | 3,050 | 0.07 | 0.040 | 10 | 385 | 0.01 | 770 | \$5 | SF | \$3,850 | 2.4% |
| Total Site Info | 7,850 | 0.18 | 0.165 | 30 | 9,565 | 0.35 | | | | \$9,850 | 6.2% |
| 40 Nottingham Volunteer Fire Company Station 17 | | | | | | | | | | | |
| Bioretention system | 970 | 0.02 | 0.025 | 4 | 1,860 | 0.07 | 250 | \$5 | SF | \$1,250 | 0.7% |
| Pervious pavement | 8,500 | 0.20 | 0.221 | 37 | 16,250 | 0.61 | 1,520 | \$25 | SF | \$38,000 | 6.0% |
| Rainwater harvesting | 2,000 | 0.05 | 0.052 | 9 | 2,000 | 0.08 | 2,000 | \$2 | gal | \$4,000 | 1.4% |
| Total Site Info | 11,470 | 0.26 | 0.299 | 50 | 20,110 | 0.76 | | | | \$43,250 | 8.1% |
| 41 Our Lady of Sorrows School | | | | | | | | | | | |
| Bioretention system | 1,130 | 0.03 | 0.029 | 5 | 2,160 | 0.08 | 290 | \$5 | SF | \$1,450 | 0.5% |
| Pervious pavement | 56,120 | 1.29 | 1.462 | 245 | 107,290 | 4.03 | 13,800 | \$25 | SF | \$345,000 | 25.6% |
| Total Site Info | 57,250 | 1.31 | 1.492 | 250 | 109,450 | 4.11 | | | | \$346,450 | 26.1% |
| 42 Saint Mark United Methodist Church | | | | | | | | | | | |
| Bioretention system | 23,350 | 0.54 | 0.608 | 102 | 44,640 | 1.68 | 5,850 | \$5 | SF | \$29,250 | 20.5% |
| Total Site Info | 23,350 | 0.54 | 0.608 | 102 | 44,640 | 1.68 | | | | \$29,250 | 20.5% |
| 43 University Plaza | | | | | | | | | | | |
| Bioretention system | 2,350 | 0.05 | 0.061 | 10 | 4,500 | 0.17 | 600 | \$5 | SF | \$3,000 | 1.9% |
| Pervious pavement | 15,670 | 0.36 | 0.408 | 68 | 29,960 | 1.13 | 4,140 | \$25 | SF | \$103,500 | 13.0% |
| Total Site Info | 18,020 | 0.41 | 0.470 | 79 | 34,460 | 1.30 | | | | \$106,500 | 15.0% |
| 44 VFW Hamilton Township Post | | | | | | | | | | | |
| Bioretention system | 5,550 | 0.13 | 0.145 | 24 | 10,610 | 0.40 | 1,390 | \$5 | SF | \$6,950 | 9.1% |
| Pervious pavement | 8,400 | 0.19 | 0.219 | 37 | 16,060 | 0.60 | 1,500 | \$25 | SF | \$37,500 | 13.8% |
| Total Site Info | 13,950 | 0.32 | 0.363 | 61 | 26,670 | 1.00 | | | | \$44,450 | 23.0% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|--------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| POND RUN SUBWATERSHED | 579,005 | 13.29 | 14.922 | 2,521 | 1,089,530 | 41.15 | | | | \$3,582,500 | 15.5% |
| 45 Alexander Elementary School | | | | | | | | | | | |
| Bioretention system | 3,775 | 0.09 | 0.098 | 16 | 7,220 | 0.27 | 950 | \$5 | SF | \$4,750 | 2.9% |
| Pervious pavement | 27,300 | 0.63 | 0.711 | 119 | 52,200 | 1.96 | 4,880 | \$25 | SF | \$122,000 | 21.3% |
| Total Site Info | 31,075 | 0.71 | 0.810 | 136 | 59,420 | 2.23 | | | | \$126,750 | 24.2% |
| 46 Bromley Park | | | | | | | | | | | |
| Bioretention system | 1,680 | 0.04 | 0.044 | 7 | 3,210 | 0.12 | 420 | \$5 | SF | \$2,100 | 5.6% |
| Total Site Info | 1,680 | 0.04 | 0.044 | 7 | 3,210 | 0.12 | | | | \$2,100 | 5.6% |
| 47 Colonial Volunteer Fire Company | | | | | | | | | | | |
| Pervious pavement | 28,650 | 0.66 | 0.746 | 125 | 54,780 | 2.06 | 5,500 | \$25 | SF | \$137,500 | 18.1% |
| Rainwater harvesting | 3,150 | 0.07 | 0.082 | 14 | 2,500 | 0.23 | 2,500 | \$2 | gal | \$5,000 | 2.0% |
| Total Site Info | 31,800 | 0.73 | 0.829 | 139 | 57,280 | 2.29 | | | | \$142,500 | 20.1% |
| 48 Greenwood Elementary School | | | | | | | | | | | |
| Pervious pavement | 8,340 | 0.19 | 0.217 | 36 | 15,950 | 0.60 | 2,660 | \$25 | SF | \$66,500 | 11.2% |
| Planter box (downspout) | 1,000 | 0.02 | n/a | 4 | n/a | n/a | 5 | \$1,000 | box | \$5,000 | 1.3% |
| Total Site Info | 9,340 | 0.21 | 0.217 | 40 | 15,950 | 0.60 | | | | \$71,500 | 12.5% |
| 49 Hamilton Golf Center | | | | | | | | | | | |
| Bioretention system | 3,030 | 0.07 | 0.079 | 13 | 5,790 | 0.22 | 760 | \$5 | SF | \$3,800 | 1.5% |
| Pervious pavement | 7,560 | 0.17 | 0.197 | 33 | 14,450 | 0.54 | 1,350 | \$25 | SF | \$33,750 | 3.8% |
| Total Site Info | 10,590 | 0.24 | 0.276 | 46 | 20,240 | 0.76 | | | | \$37,550 | 5.3% |
| 50 Hamilton Lanes | | | | | | | | | | | |
| Bioretention system | 9,300 | 0.21 | 0.242 | 41 | 17,780 | 0.67 | 2,325 | \$5 | SF | \$11,625 | 5.7% |
| Pervious pavement | 49,375 | 1.13 | 1.286 | 215 | 94,400 | 3.55 | 13,380 | \$25 | SF | \$334,500 | 30.5% |
| Total Site Info | 58,675 | 1.35 | 1.529 | 256 | 112,180 | 4.22 | | | | \$346,125 | 36.2% |
| 51 Hamilton Township Municipal Building | | | | | | | | | | | |
| Bioretention system | 2,250 | 0.05 | 0.059 | 10 | 4,300 | 0.16 | 250 | \$5 | SF | \$1,250 | 1.4% |
| Pervious pavement | 36,900 | 0.85 | 0.961 | 161 | 70,540 | 2.65 | 9,900 | \$25 | SF | \$247,500 | 22.4% |
| Total Site Info | 39,150 | 0.90 | 1.020 | 171 | 74,840 | 2.81 | | | | \$248,750 | 23.8% |
| 52 Hamilton Township Library | | | | | | | | | | | |
| Bioretention system | 1,240 | 0.03 | 0.032 | 5 | 2,370 | 0.09 | 310 | \$5 | SF | \$1,550 | 1.0% |
| Pervious pavement | 17,900 | 0.41 | 0.466 | 78 | 34,220 | 1.29 | 4,275 | \$25 | SF | \$106,875 | 15.2% |
| Total Site Info | 19,140 | 0.44 | 0.499 | 83 | 36,590 | 1.38 | | | | \$108,425 | 16.2% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 53 Hamilton Township Police Division | | | | | | | | | | | |
| Bioretention systems | 8,960 | 0.21 | 0.233 | 39 | 17,130 | 0.64 | 2,240 | \$5 | SF | \$11,200 | 4.1% |
| Pervious pavement | 15,900 | 0.37 | 0.414 | 69 | 30,400 | 1.14 | 2,840 | \$25 | SF | \$71,000 | 7.3% |
| Total Site Info | 24,860 | 0.57 | 0.648 | 108 | 47,530 | 1.78 | | | | \$82,200 | 11.4% |
| 54 Kuser Elementary School | | | | | | | | | | | |
| Bioretention system | 1,000 | 0.02 | 0.026 | 4 | 1,910 | 0.07 | 250 | \$5 | SF | \$1,250 | 1.3% |
| Pervious pavement | 5,775 | 0.13 | 0.150 | 25 | 11,040 | 0.41 | 2,440 | \$25 | SF | \$61,000 | 7.5% |
| Planter box (downspout) | 1,720 | 0.04 | n/a | 6 | n/a | n/a | 8 | \$1,000 | box | \$8,000 | 2.2% |
| Total Site Info | 8,495 | 0.20 | 0.177 | 36 | 12,950 | 0.48 | | | | \$70,250 | 11.1% |
| 55 Langtree Elementary School | | | | | | | | | | | |
| Bioretention system | 12,060 | 0.28 | 0.314 | 53 | 23,050 | 0.87 | 3,020 | \$5 | SF | \$15,100 | 13.6% |
| Pervious pavement | 15,555 | 0.36 | 0.405 | 68 | 29,740 | 1.12 | 4,210 | \$25 | SF | \$105,250 | 17.5% |
| Total Site Info | 27,615 | 0.63 | 0.720 | 120 | 52,790 | 1.99 | | | | \$120,350 | 31.1% |
| 56 Mercerville Elementary School | | | | | | | | | | | |
| Pervious pavement | 29,150 | 0.67 | 0.760 | 127 | 55,730 | 2.09 | 5,290 | \$25 | SF | \$132,250 | 25.6% |
| Total Site Info | 29,150 | 0.67 | 0.760 | 127 | 55,730 | 2.09 | | | | \$132,250 | 25.6% |
| 57 Pace Charter School | | | | | | | | | | | |
| Bioretention system | 4,670 | 0.11 | 0.122 | 20 | 8,930 | 0.34 | 1,180 | \$5 | SF | \$5,900 | 11.6% |
| Pervious pavement | 12,870 | 0.30 | 0.335 | 56 | 24,600 | 0.92 | 3,240 | \$25 | SF | \$81,000 | 31.9% |
| Total Site Info | 17,540 | 0.40 | 0.457 | 77 | 33,530 | 1.26 | | | | \$86,900 | 43.4% |
| 58 Reynolds Middle School | | | | | | | | | | | |
| Bioretention systems | 7,360 | 0.17 | 0.192 | 32 | 14,070 | 0.53 | 1,840 | \$5 | SF | \$9,200 | 2.6% |
| Planter box (downspout) | 1,720 | 0.04 | n/a | 6 | n/a | n/a | 8 | \$1,000 | box | \$8,000 | 0.6% |
| Total Site Info | 9,080 | 0.21 | 0.192 | 38 | 14,070 | 0.53 | | | | \$17,200 | 3.2% |
| 59 Sayen Elementary School | | | | | | | | | | | |
| Bioretention system | 8,450 | 0.19 | 0.220 | 37 | 16,160 | 0.61 | 2,115 | \$5 | SF | \$10,575 | 10.6% |
| Planter box (downspout) | 575 | 0.01 | n/a | 2 | n/a | n/a | 3 | \$1,000 | box | \$3,000 | 0.7% |
| Total Site Info | 9,025 | 0.21 | 0.220 | 39 | 16,160 | 0.61 | | | | \$13,575 | 11.3% |
| 60 St. Gregory the Great Catholic Church | | | | | | | | | | | |
| Bioretention system | 7,840 | 0.18 | 0.204 | 34 | 14,990 | 0.56 | 1,960 | \$5 | SF | \$9,800 | 2.3% |
| Pervious pavement | 81,130 | 1.86 | 2.114 | 354 | 155,110 | 5.83 | 15,070 | \$25 | SF | \$376,750 | 24.0% |
| Planter box (downspout) | 1,290 | 0.03 | n/a | 5 | n/a | n/a | 6 | \$1,000 | box | \$6,000 | 0.4% |
| Rainwater harvesting | 1,650 | 0.04 | 0.043 | 7 | 1,300 | 0.12 | 1,300 | \$2 | gal | \$2,600 | 0.5% |
| Total Site Info | 91,910 | 2.11 | 2.361 | 400 | 171,400 | 6.51 | | | | \$395,150 | 27.2% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|--------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 61 Suburban Plaza (Walmart) | | | | | | | | | | | |
| Pervious pavement | 12,600 | 0.29 | 0.328 | 55 | 24,090 | 0.91 | 35,100 | \$25 | SF | \$877,500 | 1.4% |
| Total Site Info | 12,600 | 0.29 | 0.328 | 55 | 24,090 | 0.91 | | | | \$877,500 | 1.4% |
| 62 Trenton Catholic Academy | | | | | | | | | | | |
| Bioretention system | 13,440 | 0.31 | 0.350 | 59 | 25,690 | 0.97 | 3,360 | \$5 | SF | \$16,800 | 6.3% |
| Pervious pavement | 65,480 | 1.50 | 1.706 | 286 | 125,190 | 4.70 | 13,515 | \$25 | SF | \$337,875 | 30.6% |
| Total Site Info | 78,920 | 1.81 | 2.056 | 344 | 150,880 | 5.67 | | | | \$354,675 | 36.9% |
| 63 Whitehorse Plaza Shopping Center | | | | | | | | | | | |
| Pervious pavement | 68,360 | 1.57 | 1.781 | 298 | 130,690 | 4.91 | 13,950 | \$25 | SF | \$348,750 | 22.0% |
| Total Site Info | 68,360 | 1.57 | 1.781 | 298 | 130,690 | 4.91 | | | | \$348,750 | 22.0% |
| SHADY BROOK SUBWATERSHED | 292,585 | 6.72 | 7.562 | 1,275 | 554,730 | 20.88 | | | | \$1,526,306 | 12.2% |
| 64 Aldi | | | | | | | | | | | |
| Bioretention system | 4,000 | 0.09 | 0.104 | 17 | 7,640 | 0.29 | 1,000 | \$5 | SF | \$5,000 | 2.9% |
| Pervious pavement | 26,315 | 0.60 | 0.686 | 115 | 50,310 | 1.89 | 5,235 | \$25 | SF | \$130,875 | 19.0% |
| Total Site Info | 30,315 | 0.70 | 0.790 | 132 | 57,950 | 2.18 | | | | \$135,875 | 21.9% |
| 65 Duetzville Park | | | | | | | | | | | |
| Bioretention system | 1,505 | 0.03 | 0.039 | 7 | 2,880 | 0.11 | 376 | \$5 | SF | \$1,881 | 1.9% |
| Pervious pavement | 12,920 | 0.30 | 0.337 | 56 | 24,700 | 0.93 | 3,420 | \$25 | SF | \$85,500 | 15.9% |
| Total Site Info | 14,425 | 0.33 | 0.376 | 63 | 27,580 | 1.04 | | | | \$87,381 | 17.8% |
| 66 George E. Wilson Elementary School | | | | | | | | | | | |
| Bioretention system | 3,770 | 0.09 | 0.098 | 16 | 7,210 | 0.27 | 950 | \$5 | SF | \$4,750 | 2.7% |
| Total Site Info | 3,770 | 0.09 | 0.098 | 16 | 7,210 | 0.27 | | | | \$4,750 | 2.7% |
| 67 Grice Middle School | | | | | | | | | | | |
| Bioretention system | 4,375 | 0.10 | 0.114 | 19 | 8,360 | 0.31 | 1,100 | \$5 | SF | \$5,500 | 1.8% |
| Pervious pavement | 46,170 | 1.06 | 1.203 | 201 | 88,270 | 3.32 | 11,450 | \$25 | SF | \$286,250 | 18.9% |
| Total Site Info | 50,545 | 1.16 | 1.317 | 220 | 96,630 | 3.63 | | | | \$291,750 | 20.6% |
| 68 Hamilton Educational Program | | | | | | | | | | | |
| Bioretention system | 1,380 | 0.03 | 0.036 | 6 | 2,640 | 0.10 | 350 | \$5 | SF | \$1,750 | 3.9% |
| Pervious pavement | 11,830 | 0.27 | 0.308 | 52 | 22,620 | 0.85 | 3,320 | \$25 | SF | \$83,000 | 33.6% |
| Total Site Info | 13,210 | 0.30 | 0.344 | 58 | 25,260 | 0.95 | | | | \$84,750 | 37.6% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|------------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 69 Hamilton High School West | | | | | | | | | | | |
| Bioretention systems | 4,000 | 0.09 | 0.104 | 17 | 7,640 | 0.29 | 1,000 | \$5 | SF | \$5,000 | 1.3% |
| Planter box (downspout) | 1,505 | 0.03 | n/a | 6 | n/a | n/a | 7 | \$1,000 | box | \$7,000 | 0.5% |
| Total Site Info | 5,505 | 0.13 | 0.104 | 23 | 7,640 | 0.29 | | | | \$12,000 | 1.9% |
| 70 Independence Mall | | | | | | | | | | | |
| Bioretention system | 4,800 | 0.11 | 0.125 | 21 | 9,180 | 0.34 | 1,200 | \$5 | SF | \$6,000 | 0.5% |
| Pervious pavement | 60,250 | 1.38 | 1.570 | 263 | 115,190 | 4.33 | 13,815 | \$25 | SF | \$345,375 | 5.7% |
| Total Site Info | 65,050 | 1.49 | 1.695 | 284 | 124,370 | 4.67 | | | | \$351,375 | 6.2% |
| 71 K McCoy Inc. Insurance Agency | | | | | | | | | | | |
| Bioretention system | 10,000 | 0.23 | 0.261 | 44 | 19,120 | 0.72 | 2,515 | \$5 | SF | \$12,575 | 50.0% |
| Total Site Info | 10,000 | 0.23 | 0.261 | 44 | 19,120 | 0.72 | | | | \$12,575 | 50.0% |
| 72 Kisthardt Elementary School | | | | | | | | | | | |
| Bioretention system | 650 | 0.01 | 0.017 | 3 | 1,240 | 0.05 | 165 | \$5 | SF | \$825 | 0.8% |
| Pervious pavement | 11,800 | 0.27 | 0.307 | 51 | 22,560 | 0.85 | 2,880 | \$25 | SF | \$72,000 | 14.0% |
| Total Site Info | 12,450 | 0.29 | 0.324 | 54 | 23,800 | 0.90 | | | | \$72,825 | 14.8% |
| 73 Lalor Elementary School | | | | | | | | | | | |
| Bioretention system | 2,310 | 0.05 | 0.060 | 10 | 4,410 | 0.17 | 580 | \$5 | SF | \$2,900 | 4.2% |
| Pervious pavement | 4,050 | 0.09 | 0.106 | 18 | 7,740 | 0.29 | 975 | \$25 | SF | \$24,375 | 7.4% |
| Planter box (downspout) | 860 | 0.02 | n/a | 3 | n/a | n/a | 4 | \$1,000 | box | \$4,000 | 1.6% |
| Total Site Info | 7,220 | 0.17 | 0.166 | 31 | 12,150 | 0.46 | | | | \$31,275 | 13.2% |
| 74 Life St. Francis | | | | | | | | | | | |
| Pervious pavement | 3,120 | 0.07 | 0.081 | 14 | 5,960 | 0.22 | 1,400 | \$25 | SF | \$35,000 | 13.9% |
| Total Site Info | 3,120 | 0.07 | 0.081 | 14 | 5,960 | 0.22 | | | | \$35,000 | 13.9% |
| 75 McGalliard Elementary School | | | | | | | | | | | |
| Bioretention system | 785 | 0.02 | 0.020 | 3 | 1,500 | 0.06 | 200 | \$5 | SF | \$1,000 | 0.5% |
| Pervious pavement | 32,940 | 0.76 | 0.858 | 144 | 62,970 | 2.37 | 9,970 | \$25 | SF | \$249,250 | 22.7% |
| Total Site Info | 33,725 | 0.77 | 0.879 | 147 | 64,470 | 2.43 | | | | \$250,250 | 23.3% |
| 76 Rusling Hose Fire Company | | | | | | | | | | | |
| Bioretention system | 5,850 | 0.13 | 0.152 | 26 | 11,180 | 0.42 | 1,465 | \$5 | SF | \$7,325 | 18.9% |
| Pervious pavement | 9,285 | 0.21 | 0.242 | 40 | 17,750 | 0.67 | 2,285 | \$25 | SF | \$57,125 | 30.1% |
| Total Site Info | 15,135 | 0.35 | 0.394 | 66 | 28,930 | 1.09 | | | | \$64,450 | 49.0% |

Summary of Proposed Green Infrastructure Practices

| Subwatershed/Site Name/Total Site Info/GI Practice | Potential Management Area | | Recharge Potential (Mgal/yr) | TSS Removal Potential (lbs/yr) | Max Volume Reduction Potential (gal/storm) | Peak Discharge Reduction Potential (cfs) | Size of BMP | Unit Cost (\$/unit) | Unit | Total Cost (\$) | I.C. Treated % |
|--|---------------------------|-------------|------------------------------|--------------------------------|--|--|-------------|---------------------|------|-----------------|----------------|
| | Area (SF) | Area (ac) | | | | | | | | | |
| 77 St. Mark Lutheran Church | | | | | | | | | | | |
| Bioretention system | 2,865 | 0.07 | 0.075 | 12 | 5,480 | 0.21 | 720 | \$5 | SF | \$3,600 | 8.9% |
| Pervious pavement | 19,150 | 0.44 | 0.499 | 84 | 36,610 | 1.38 | 3,420 | \$25 | SF | \$85,500 | 59.8% |
| Rainwater harvesting | 100 | 0.00 | 0.003 | 0 | 100 | 0.01 | 100 | \$2 | gal | \$200 | 0.3% |
| Total Site Info | 22,115 | 0.51 | 0.576 | 96 | 42,190 | 1.60 | | | | \$89,300 | 69.0% |
| 78 True Servant Preschool Academy | | | | | | | | | | | |
| Bioretention system | 6,000 | 0.14 | 0.156 | 26 | 11,470 | 0.43 | 550 | \$5 | SF | \$2,750 | 19.9% |
| Total Site Info | 6,000 | 0.14 | 0.156 | 26 | 11,470 | 0.43 | | | | \$2,750 | 19.9% |

Attachment 4
**Nonstructural Stormwater Management Strategies and
How to Demonstrate “Maximum Extent Practicable”**

1. Protect areas that provide water quality benefits or areas particularly susceptible to erosion and sediment loss.
Requirement: Applicant must identify all existing riparian buffers, corridors, wetlands, and highly erodible soils on the plans. Disturbance of these areas must be prevented by installing fencing, identification signage, and/or other protective elements. All proposed measures must be clearly indicated on the plans.
2. Minimize impervious surfaces and break up or disconnect the flow of runoff over impervious surfaces.
Requirement: Applicant must demonstrate that impervious cover is less than 10% of the site or that any impervious areas exceeding 10% of the site area are disconnected to prevent stormwater runoff from flowing directly into the storm sewer system and/or nearby waterways.
3. Maximize the protection of natural drainage features and vegetation.
Requirement: Applicant must identify these features and vegetation on the plans and protect these features with fencing or justify disturbance of these areas and provide a plan for restoration of these areas. All proposed measures must be clearly indicated on the plans.
4. Minimize the decrease in the "time of concentration" from pre-construction to post-construction. "Time of concentration" is defined as the time it takes for runoff to travel from the hydraulically most distant point of the drainage area to the point of interest within a watershed.
Requirement: If #2 is satisfied; this criterion also is satisfied.
5. Minimize land disturbance including clearing and grading.
Requirement: Applicant is allowed to clear an area up to 150% of the final right of way (ROW) of the roadway. The Applicant is only allowed to clear up to 150% of the width of a final driveway. The Applicant is only allowed to clear up to 50 feet around a structure footprint.
6. Minimize soil compaction.
Requirement: All limits of disturbance must be fenced off to prevent heavy equipment entering these areas.
7. Provide low-maintenance landscaping that encourages retention and planting of native vegetation and minimizes the use of lawns, fertilizers and pesticides.
Requirement: A landscape plan signed and sealed by a New Jersey Licensed Landscape Architect must be submitted to the Township that shows all turfgrass areas and all landscaped areas. A minimum of 10% of proposed landscape areas shall use native vegetation species.

8. Provide vegetated open-channel conveyance systems discharging into and through stable vegetated areas.

Requirement: A minimum of 10% of all stormwater conveyance must be accomplished through the use of open channel vegetated channels.

9. Provide other source controls to prevent or minimize the use or exposure of pollutants at the site to prevent or minimize the release of those pollutants into stormwater runoff. These source controls include, but are not limited to:

- i. Site design features that help to prevent accumulation of trash and debris in drainage systems.

Requirement: All catch basins must comply with MS4 regulations.

- ii. Site design features that help to prevent discharge of trash and debris from drainage systems.

Requirement: All catch basins must comply with MS4 regulations.

- iii. Site design features that help to prevent and/or contain spills or other harmful accumulations of pollutants at industrial or commercial developments.

Requirement: All outdoor chemical storage areas shall be covered and have secondary containment in compliance with Federal, State, and Local regulations.

- iv. When establishing vegetation after land disturbance, applying fertilizer in accordance with the requirements established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules.

Requirement: Applicant must have an approved soil erosion and sediment control permit and comply with all requirements.