BRIGHT HORIZONS
800 NORTH ROAD

This site currently has 105,000 square feet of impervious cover, creating 3.07 million gallons of stormwater runoff and flushing 316 pounds of pollutants into Jacob's Creek each year.

A bioswale installed along the path water flows along the grass would treat runoff before it reaches the storm drain, while a vegetated filter planted on the hill in the pack of the property would treat runoff from the play area.

These measures would remediate 41.2% of the site's impervious cover and could remove 47.9 pounds of pollutants from Jacob's Creek annually and restore 1.20 million gallons of water to the natural water cycle.

Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
105,053.56	39.1%	2.41	24.12	289.40	81,859.92	217,419.95	3,074,006.43

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Vegetative Filter	17,612.97	0.12	1.21	33.96	26,540.62	356,483.42	$88,064.85
Bioswale	4,925.74	0.07	0.34	12.21	63,094.71	847,463.76	$24,628.72
Total	22,538.71	0.19	1.55	46.18	89,635.33	1,203,947.18	$112,693.57

BRIGHT HORIZONS
800 NORTH ROAD

Property Line
Drainage Area
Vegetated Filter
Bioswale

0 50 100 200 Feet

N

HOPEWELL TOWNSHIP MUNICIPAL OFFICE
201 WASHINGTON CROSSING-PENNINGTON ROAD

This site currently has 145,000 million square feet of impervious cover, creating 4.24 gallons of stormwater runoff and flushing 436 pounds of pollutants into Jacob's Creek each year.

Vegetating swales that already exist along the property would treat runoff from the paved surfaces before it reaches storm drains, while a cistern could capture roof runoff.

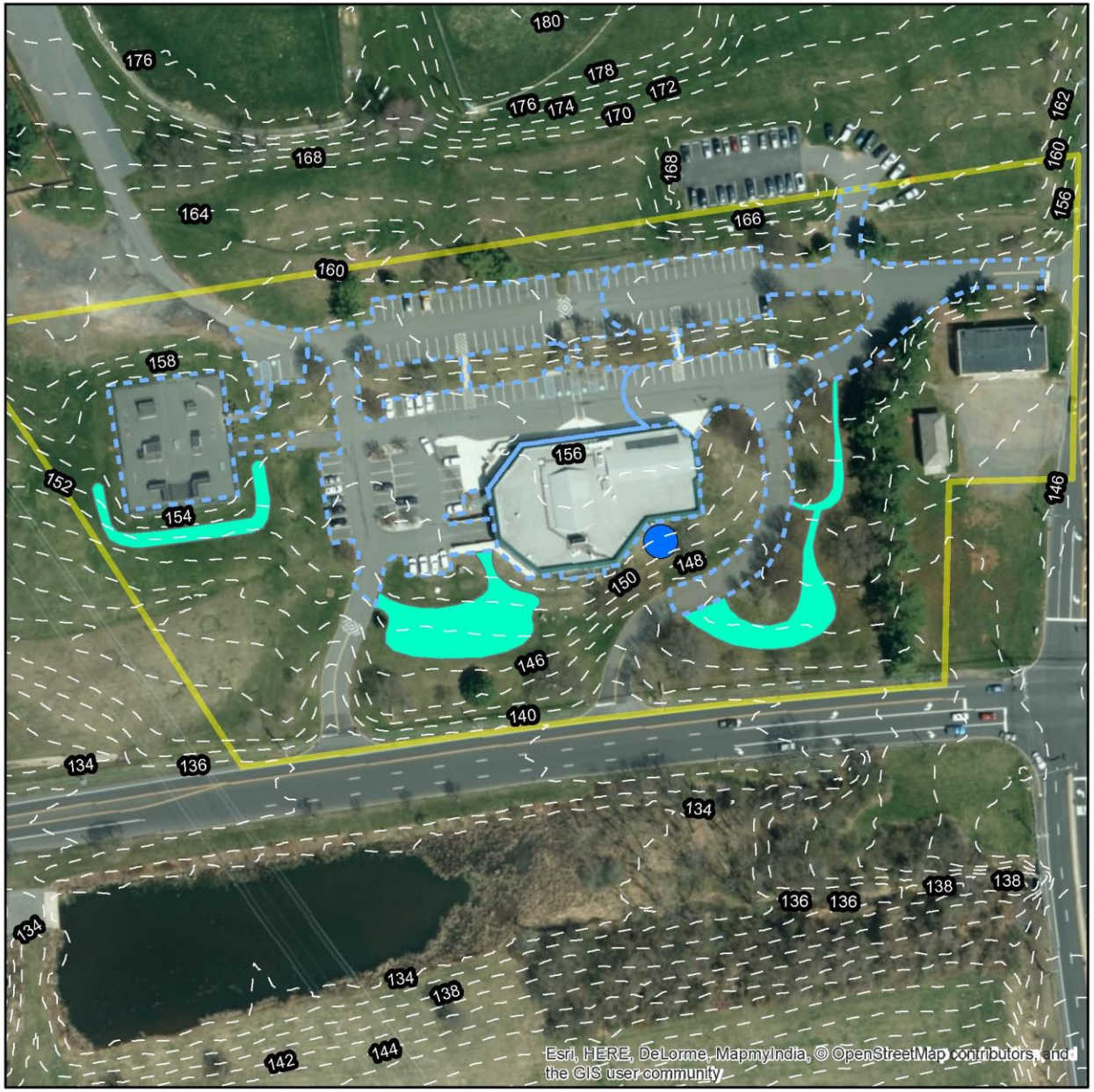
These measures would remediate 83.8% of the site's impervious cover and could remove 43.8 pounds of pollutants from Jacob's Creek annually and restore 3.38 million gallons of water to the natural water cycle.

Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
144,915.96	37.1%	3.33	33.27	399.22	112,921.54	299,919.60	4,240,433.10

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale 1	3,232.50	0.04	0.22	8.01	34,075.56	457,689.76	$16,162.50
Bioswale 2	7,656.44	0.11	0.53	18.98	97,479.79	1,309,311.02	$38,282.20
Bioswale 3	6,201.92	0.09	0.43	15.38	77,481.48	1,040,701.35	$31,009.60
Cistern	42,500.00	0.00	0.00	0.00	42,405.60	569,575.61	$212,500.00
Total	59,590.86	0.24	1.18	42.37	251,442.43	3,377,277.73	$297,954.30



HOPEWELL TOWNSHIP
MUNICIPAL OFFICES
201 WASHINGTON CROSSING
-PENNINGTON ROAD

Property Line
Drainage Area
Cistern
Bioswale

Feet
0 65 130 260

N

UNITARIAN UNIVERSALIST CHURCH
268 WASHINGTON CROSSING-PENNINGTON ROAD

This site currently has 193,000 square feet of impervious cover, creating 1.19 million gallons of stormwater runoff and flushing 122 pounds of pollutants into Jacob's Creek each year.

A bioswale installed along the parking lot, connected to a rain garden, would treat runoff from the lot and part of the driveway. A rain garden and pervious pavement would capture and treat runoff from the roof as well as the driveway and an area of grass that has become compacted from being used as a parking surface.

These measures would remediate 86.7% of the site's impervious cover and could remove 28.8 pounds of pollutants from Jacob's Creek annually and restore 982,000 gallons of water to the natural water cycle.

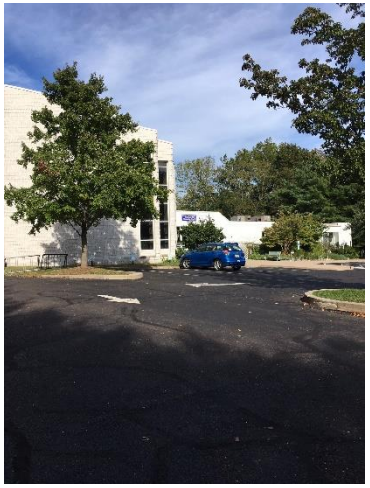
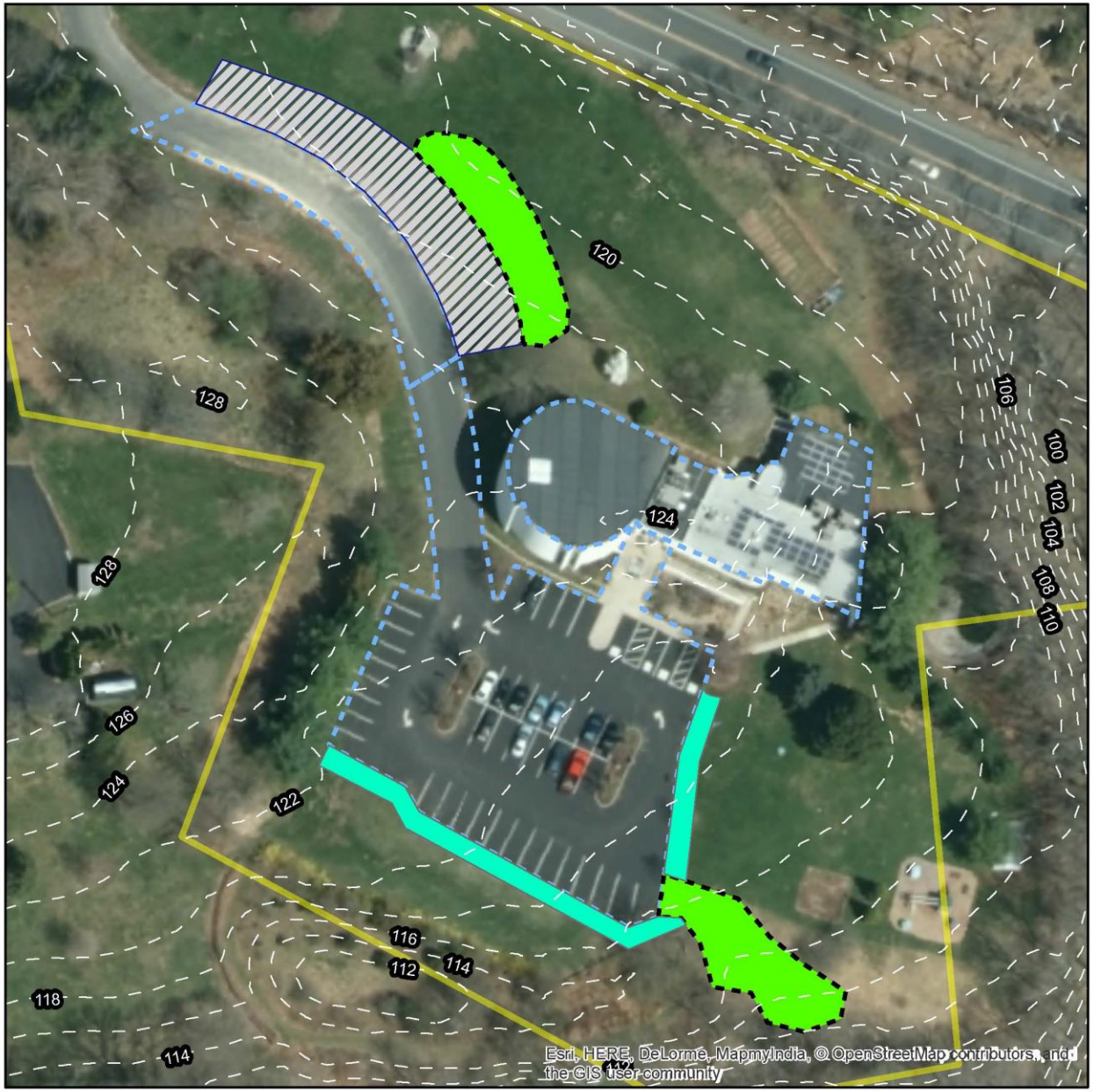


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
193,062.83	21.1%	0.94	9.35	112.20	31,736.92	84,293.25	1,191,785.70

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale	2,646.35	0.04	0.18	6.56	34,115.23	458,222.68	$13,231.75
Rain Garden 1	2,645.91	0.04	0.18	6.56	10,829.96	145,463.84	$13,229.55
Rain Garden 2	2,682.76	0.04	0.18	6.65	14,516.17	194,975.54	$13,413.80
Porous Pavement	5,461.71	0.10	0.75	7.52	13,647.32	183,305.57	$65,540.52
Total	13,436.73	0.21	1.30	27.30	73,108.68	981,967.63	$105,415.62



UNITARIAN UNIVERSALIST CHURCH
268 WASHINGTON CROSSING-PENNINGTON ROAD

- Property Line
- Drainage Area
- Porous Pavement
- Rain Garden
- Bioswale

Feet
0 30 60 120

N

DUNKIN DONUTS
1 TREE FARM ROAD

This site currently has 61,100 square feet of impervious cover, creating 1.79 million gallons of stormwater runoff and flushing 184 pounds of pollutants into the Lower Stony Brook each year.

In the front of the property, a bioswale leading into a rain garden would capture and treat runoff from the front parking lot, while porous pavement installed in parking spaces would capture runoff from the back parking lot.

These measures would remediate 35.3% of the site's impervious cover and could remove 14.6 pounds of pollutants from the Lower Stony Brook annually and restore 599,000 gallons of water to the natural water cycle.

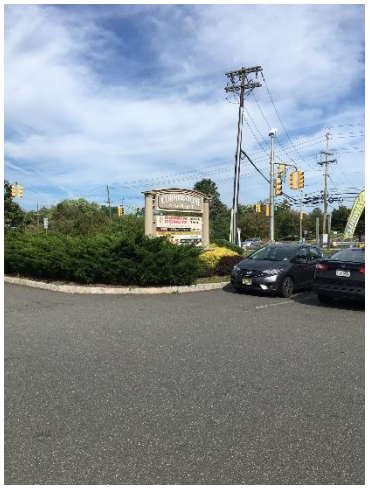


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
61,083.09	78.1%	1.40	14.02	168.27	47,597.21	126,418.20	1,787,372.10

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Rain Garden	2,523.68	0.03	0.17	6.26	12,711.82	170,740.22	$12,618.40
Bioswale	1,079.83	0.01	0.07	2.68	13,268.36	178,215.44	$5,399.15
Porous Pavement	2,289.59	0.03	0.26	5.05	18,650.77	250,509.97	$27,475.08
Total	5,893.10	0.08	0.51	13.98	44,630.94	599,465.64	$45,492.63

DUNKIN DONUTS
1 TREE FARM ROAD

- Property Line
- Drainage Area
- Porous Pavement
- Rain Garden
- Bioswale

Feet
0 25 50 100

N

M&T BANK
3 TREE FARM ROAD

This site currently has 39,500 square feet of impervious cover, creating 1.15 million gallons of stormwater runoff and flushing 119 pounds of pollutants into the Lower Stony Brook each year.

A rain garden would capture runoff from the roof, while installing porous pavement in the rear parking area would capture runoff from the driveway surface.

These measures would remediate 35.2% of the site's impervious cover and could remove 5.35 pounds of pollutants from the Lower Stony Brook annually and restore 386,000 gallons of water to the natural water cycle.

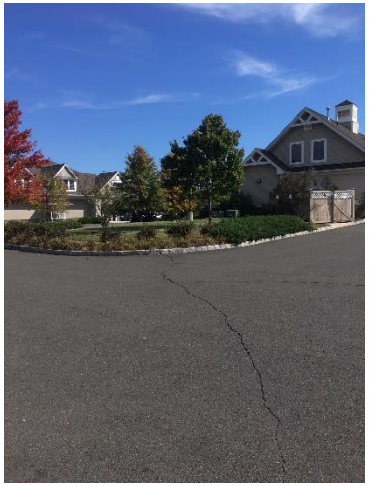


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
39,459.20	67.3%	0.91	9.06	108.70	30,747.43	81,665.17	1,154,628.36

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Porous Pavement	1,559.94	0.02	0.18	3.44	21,699.74	291,462.57	$18,719.28
Rain Garden	668.21	0.01	0.05	1.66	7,033.65	94,473.33	$3,341.05
Total	2,228.15	0.03	0.23	5.09	28,733.40	385,935.90	$22,060.33

M&T BANK
3 TREE FARM ROAD

Property Line
Drainage Area
Porous Pavement
Rain Garden

Feet
0 20 40 80

N

OSTERIA PROCCACINI
7 TREE FARM ROAD

This site currently has 86,000 square feet of impervious cover, creating 2.52 million gallons of stormwater runoff and flushing 259 pounds of pollutants into the Lower Stony Brook each year.

Strategically placed porous pavement in the property's parking spots would remediate 76.1% of the site's impervious cover and could remove 28.0 pounds of pollutants from the Lower Stony Brook annually and restore 1.82 million gallons of water to the natural water cycle.

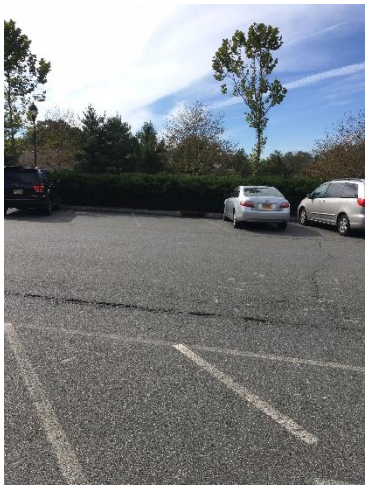


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
86,029.05	58.0%	1.97	19.75	236.99	67,035.63	178,046.63	2,517,324.14

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Porous Pavement 1	5,813.28	0.08	0.67	12.81	65,230.05	876,144.84	$69,759.36
Porous Pavement 2	4,167.87	0.06	0.48	9.19	47,834.29	642,491.71	$50,014.44
Porous Pavement 3	2,013.65	0.03	0.23	4.44	22,387.29	300,697.42	$24,163.80
Total	11,994.80	0.17	1.38	26.43	135,451.62	1,819,333.96	$143,937.60

OSTERIA PROCCACINI
7 TREE FARM ROAD

Property Line
Drainage Area
Porous Pavement

0 30 60 120 Feet

N

THE VILLAGE LEARNING CENTER
15 YARD ROAD

This site currently has 44,700 square feet of impervious cover, creating 1.31 million gallons of stormwater runoff and flushing 134 pounds of pollutants into the Lower Stony Brook each year.

Naturalizing the existing stormwater basin on the property would remediate 79.3% of the site's impervious cover and could remove 38.2 pounds of pollutants from the Lower Stony Brook annually and restore 985,000 gallons of water to the natural water cycle.

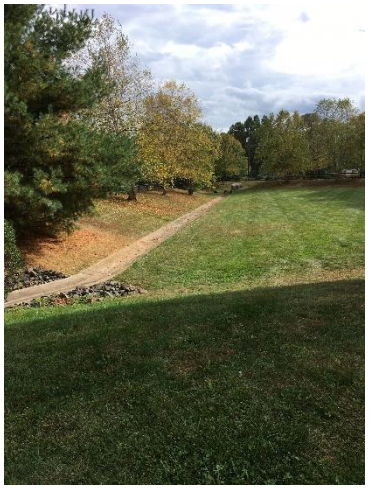


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
44,716.45	7.0%	1.03	10.27	123.19	34,843.99	92,545.63	1,308,462.52

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Stormwater Basin Naturalization	14,897.71	0.21	1.03	36.94	73,360.37	985,348.17	$74,488.55
Total	14,897.71	0.21	1.03	36.94	73,360.37	985,348.17	$74,488.55

THE VILLAGE LEARNING CENTER
15 YARD ROAD

Property Line
Drainage Area
Stormwater Basin
Naturalization

Feet
0 25 50 100

N

PRINCETON COMMUNITY CHURCH
4 BRIGHAM WAY

This site currently has 55,400 square feet of impervious cover, creating 1.62 million gallons of stormwater runoff and flushing 167 pounds of pollutants into Shabakunk Creek each year.

Naturalizing the property's existing stormwater basin would remediate 93.0% of the site's impervious cover and could remove 23.3 pounds of pollutants from Shabakunk Creek annually and restore 1.43 million gallons of water to the natural water cycle.

Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
55,373.65	24.7%	1.27	12.71	152.54	43,148.30	114,601.88	1,620,306.26

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Stormwater Basin Naturalization	9,076.78	0.13	0.63	22.50	106,635.30	1,432,284.18	$45,383.90
Total	9,076.78	0.13	0.63	22.50	106,635.30	1,432,284.18	$45,383.90

PRINCETON COMMUNITY CHURCH
4 BRIGHAM WAY

Property Line

Drainage Area

Stormwater Basin Naturalization

0 30 60 120 Feet

N

SAINT PETER LUTHERAN CHURCH
1608 HARBOURTON ROCKTOWN ROAD

This site currently has 47,000 square feet of impervious cover, creating 1.37 million gallons of stormwater runoff and flushing 141 pounds of pollutants into the Upper Stony Brook each year.

Bioswales installed along the existing runoff paths would treat all of the of the site's impervious cover and could remove 224 pounds of pollutants from the Upper Stony Brook annually and restore 4.08 million gallons of water to the natural water cycle.

Planting a vegetated filter across the long stretches of grassy hill would further reduce the sites impact on the stream.

Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
46,737.98	52.9%	5.43	54.31	651.69	36,419.20	96,729.41	1,367,615.14

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale	8,453.50	0.12	0.58	20.96	95,147.65	1,277,986.60	$42,267.50
Vegetated Filter	100,960.56	0.70	6.95	194.69	208,949.04	2,806,522.93	$302,881.68
Total	109,414.06	0.81	7.54	215.65	304,096.69	4,084,509.53	$345,149.18

SAINT PETER LUTHERAN CHURCH
1608 HARBOURTON-ROCKTOWN RD

- Property Line
- Drainage Area
- Vegetated Filter
- Bioswale

Feet
0 40 80 160

N

SHOPRITE
2555 PENNINGTON ROAD

This site currently has 236,500 square feet of impervious cover, creating 6.92 million gallons of stormwater runoff and flushing 711 pounds of pollutants into the Upper Stony Brook each year.

Planting vegetated filters in the parking lot medians would treat some of the parking lot runoff. A bioswale installed along the rear parking surfaces and delivery area would treat much of the runoff from those paved areas before it reaches the stormwater basin, and naturalizing that basin would treat the rest of the property's impervious surfaces.

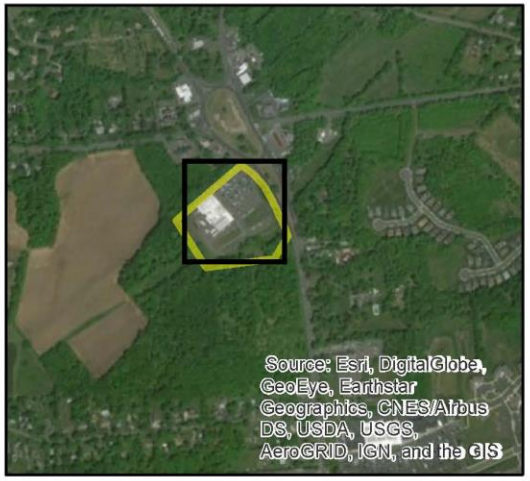
These measures would remediate 100% of the site's impervious cover and could remove 188 pounds of pollutants from the Upper Stony Brook annually and restore 6.68 million gallons of water to the natural water cycle.

Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
236,562.09	52.9%	5.43	54.31	651.69	184,334.11	489,591.40	6,922,120.44

Table 2: BMPs

BMP Type	BMP Area (sq ft), Capacity (gal) or Units	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale	19,665.80	0.27	1.35	48.76	124,184.54	1,667,998.83	$98,329.00
Stormwater Basin Naturalization	22,113.23	0.30	1.52	54.83	306,137.72	4,111,923.85	$110,566.15
Vegetated Filter 1	19,183.76	0.13	1.32	36.99	31,365.96	421,295.51	$57,551.28
Vegetated Filter 2	21,361.58	0.15	1.47	41.19	35,377.36	475,175.11	$64,084.74
Total	82,324.37	0.85	5.67	181.77	497,065.58	6,676,393.29	$330,531.17



SHOP RITE
2555 PENNINGTON RD

- Property Line
- Drainage Area
- Vegetated Filter
- Stormwater Basin Naturalization
- Bioswale

0 50 100 200 Feet

N