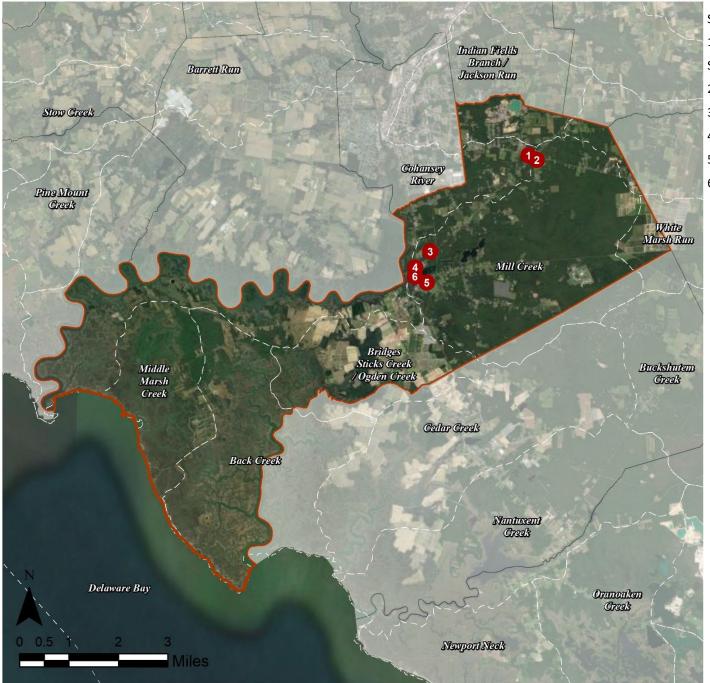
#### FAIRFIELD TOWNSHIP: GREEN INFRASTRUCTURE SITES



SITES WITHIN THE COHANSEY RIVER SUBWATERSHED

1. Young Peoples Progressive Club

SITES WITHIN THE MILL CREEK SUBWATERSHED

- 2. Cornbread House
- 3. Fairfield Municipal Building
- 4. Fairton Post Office
- 5. Victory in Christ Ministry
- 6. The Woodchucker, Inc.

# YOUNG PEOPLES PROGRESSIVE CLUB



Subwatershed:	Cohansey River
Site Area:	156,305 sq. ft.
Address:	1153 Bridgeton Millville Pike Bridgeton, NJ 08302
Block and Lot:	Block 23, Lot 11



A rain garden can be installed at the southeast corner of the building to capture, treat, and infiltrate stormwater runoff from the rooftop. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervio	ous Cover	Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)		
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"	
20	31,360	1.5	15.8	144.0	0.024	0.86	

<b>Recommended Green</b> <b>Infrastructure Practices</b>	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	0.015	2	1,060	0.04	140	\$700





#### Young Peoples Progressive Club

	bioretention system
3	drainage area
[]	property line
	2015 Aerial: NJOIT, OGIS



### **CORNBREAD HOUSE**



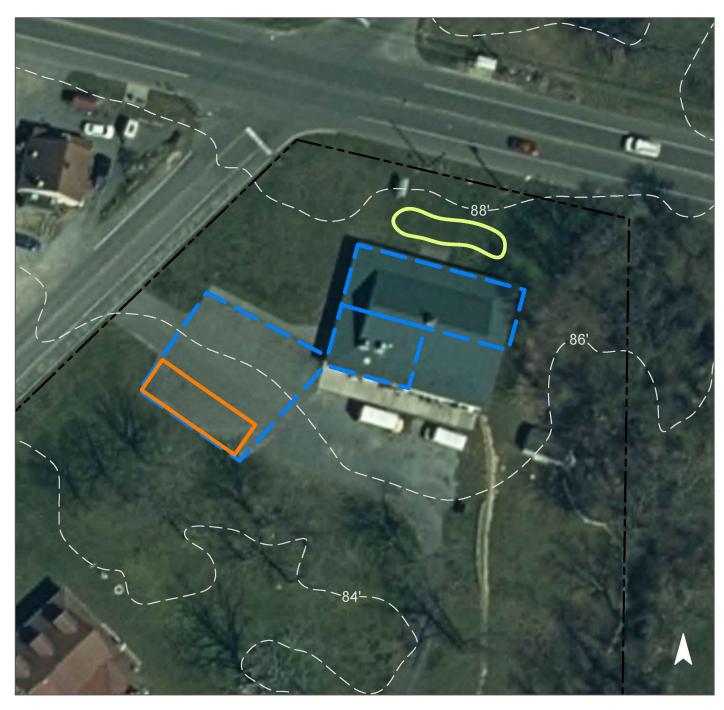
Subwatershed:	Mill Creek
Site Area:	200,250 sq. ft.
Address:	1167 Bridgeton Millville Pike Bridgeton, NJ, 08302
Block and Lot:	Block 15, Lot 1



Pervious pavement can be installed in parking spaces to capture and infiltrate runoff from the parking lot and the rooftop from a downspout at the southwest corner of the building that can be disconnected to flow onto the parking lot. A rain garden can be installed on the north side of the building to capture, treat, and infiltrate rooftop runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervio	ous Cover	Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)		
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"	
28	55,500	2.7	28.0	254.8	0.043	1.52	

<b>Recommended Green</b> <b>Infrastructure Practices</b>	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	0.076	13	5,540	0.21	730	\$3,650
Pervious pavement	0.156	26	11,310	0.43	1,200	\$30,000





#### **Cornbread House**

- bioretention systempervious pavement
- **C** drainage area
- **[]** property line

2015 Aerial: NJOIT, OGIS



### FAIRFIELD MUNICIPAL BUILDING



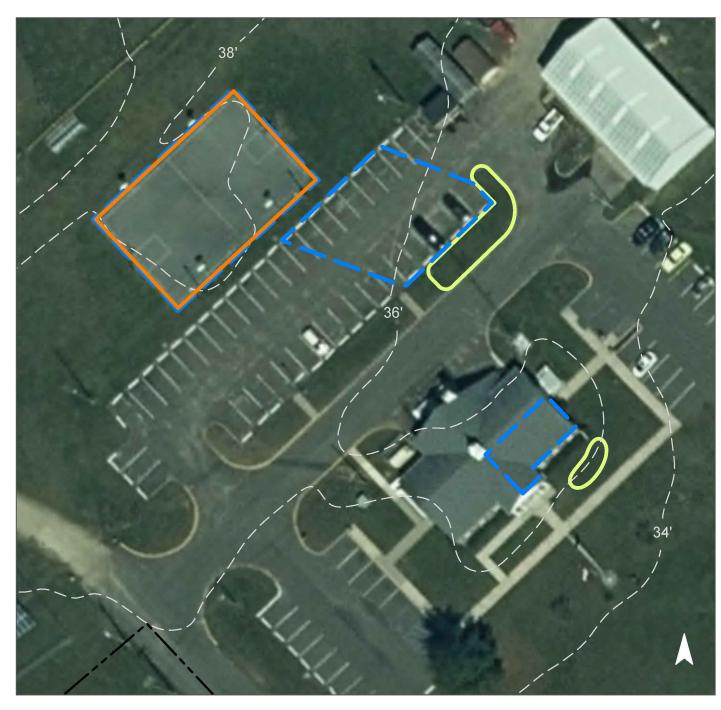
Subwatershed:	Mill Creek
Site Area:	2,694,785 sq. ft.
Address:	70 Fairton Gouldtown Road Bridgeton, NJ 08302
Block and Lot:	Block 28, Lots 49 & 49.01



The basketball court on the property can be converted to pervious pavement to capture and infiltrate stormwater runoff from the basketball court. A rain garden can be installed on the south side of the building near the entrance to capture, treat, and infiltrate stormwater runoff from the roof. Another rain garden can be installed in the parking lot island to mitigate runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	us Cover	Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)		
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"	
5	131,600	6.3	66.5	604.2	0.103	3.61	

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	0.139	23	10,110	0.38	1,335	\$6,675
Pervious pavement	0.169	28	12,300	0.46	6,500	\$162,500





#### Fairfield Municipal Building

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



## **FAIRTON POST OFFICE**



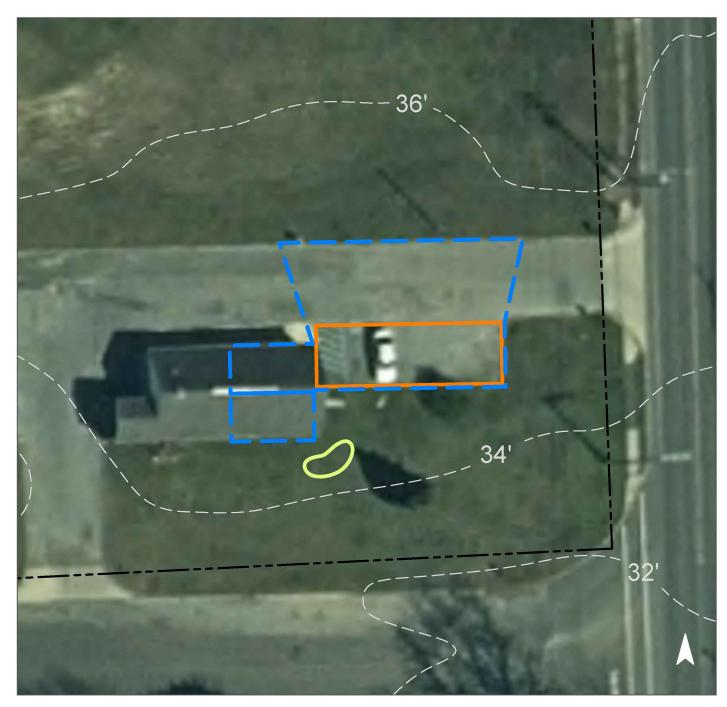
Subwatershed:	Mill Creek
Site Area:	67,945 sq. ft.
Address:	56 Bridgeton Fairton Road Fairton, NJ 08302
Block and Lot:	Block 27, Lots 15 & 15.01



A strip of parking lot on the east side of the building can be replaced with pervious pavement to capture and infiltrate stormwater runoff from the parking lot. A rain garden can be installed on the south side of the building to capture, treat, and infiltrate rooftop runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	ous Cover	Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)		
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"	
23	15,485	0.7	7.8	71.1	0.012	0.42	

Recommended Green Infrastructure Practices	Potential		Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost	
Bioretention system	0.010	2	740	0.03	100	\$500	
Pervious pavement	0.088	15	6,420	0.24	1,200	\$30,000	





#### **Fairton Post Office**

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



# **VICTORY IN CHRIST MINISTRY**



Subwatershed:	Mill Creek
Site Area:	30,550 sq. ft.
Address:	93 Fairton Millville Road Bridgeton, NJ 08302
Block and Lot:	Block 33, Lot 12



The section of parking spaces on the south side of the property can be replaced with pervious pavement to capture and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	Impervious CoverExisting LoadsImpervious Cove				Runoff Volume from Impervious Cover (Mgal)				
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
60	18,390	0.9	9.3	84.4	0.014	0.50			

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	
Pervious pavement	0.138	23	10,030	0.38	1,000	\$25,000	





#### Victory in Christ Ministry

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



# THE WOODCHUCKER, INC.



Subwatershed:	Mill Creek
Site Area:	109,140 sq. ft.
Address:	42 Bridgeton Fairton Road Fairton, NJ 08320
Block and Lot:	Block 27, Lots 35 & 35.02



A rain garden can be installed in the turfgrass area on the north side of the building to capture, treat, and infiltrate stormwater runoff from the roof. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervi	ous Cover		sting Loads f vious Cover		<b>Runoff Volume from Impervious Cover (Mgal)</b>				
%	sq. ft.	ТР	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
24	26,150	1.3	13.2	120.1	0.020	0.72			

<b>Recommended Green</b> <b>Infrastructure Practices</b>	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	1,210	0.05	160	\$800	





#### The Woodchucker, Inc.

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



	i			I.C. I.C. Existing Annual Loads (Comn		Commercial	Runoff Volumes	from I.C.	Runoff Volumes from I.C.						
							I.C.	I.C.	Existing A	liiiuai Loaus (	Commercial	Water Quality Storm		Water Quality Storm	<u> </u>
	Subwatershed/Site Name/Total Site Info/GI Practice	Area	Area	Block	Lot	I.C.	Area	Area	TP	TN	TSS	(1.25" over 2-hours)	Annual	(1.25" over 2-hours)	Annual
		(ac)	(SF)			%	(ac)	(SF)	(lb/yr)	(lb/yr)	(lb/yr)	(cu.ft.)	(cu.ft.)	(Mgal)	(Mgal)
	Cohansey River Sites	3.59	156,305				0.72	31,360	1.5	15.8	144.0	3,267	114,987	0.024	0.86
1	Young Peoples Progressive Club Total Site Info	3.59	156,305	23	11	20.0633	0.72	31,360	1.5	15.8	144.0	3,267	114,987	0.024	0.86
	Mill Creek Sites	71.23	3,102,670				5.67	247,125	11.9	124.8	1134.6	25,742	906,125	0.193	6.78
2	Cornbread House Total Site Info	4.60	200,250	15	1	27.7154	1.27	55,500	2.7	28.0	254.8	5,781	203,500	0.043	1.52
3	Fairfield Municipal Building Total Site Info	61.86	2,694,785	28	49, 49.01	4.88351	3.02	131,600	6.3	66.5	604.2	13,708	482,533	0.103	3.61
4	Fairton Post Office Total Site Info	1.56	67,945	27	15, 15.01	22.7905	0.36	15,485	0.7	7.8	71.1	1,613	56,778	0.012	0.42
5	Victory in Christ Ministry Total Site Info	0.70	30,550	33	12	60.1964	0.42	18,390	0.9	9.3	84.4	1,916	67,430	0.014	0.50
6	The Woodchucker, Inc. Total Site Info	2.51	109,140	27	35, 35.02	23.9601	0.60	26,150	1.3	13.2	120.1	2,724	95,883	0.020	0.72

#### Summary of Proposed Green Infrastructure Practices

		Potential Mar	agement Area			Max Volume	Peak Discharge					
					TSS Removal		Reduction	Size of	Unit		Total	I.C.
	Subwatershed/Site Name/Total Site Info/GI Practice	Area	Area	Potential	Potential	Potential	Potential	BMP	Cost	Unit	Cost	Treated
		(SF)	(ac)	(Mgal/yr)	(lbs/yr)	(gal/storm)	(cfs)		(\$/unit)		(\$)	%
	Cohansey River Sites	560	0.01	0.015	2	1,060	0.04				\$700	2%
1	Young Peoples Progressive Club				_							
	Bioretention system	560	0.01	0.015	2	1,060	0.04	140	\$5	SF	\$700	2%
	Total Site Info	560	0.01	0.015	2	1,060	0.04				\$700	2%
	Mill Creek Sites	30,460	0.70	0.794	133	57,660	2.18				\$259,125	12%
2	Cornbread House											
	Bioretention system	2,925	0.07	0.076	13	5,540	0.21	730	\$5	SF	\$3,650	5%
	Pervious pavement	5,975	0.14	0.156	26	11,310	0.43	1,200	\$25	SF	\$30,000	11%
	Total Site Info	8,900	0.20	0.232	39	16,850	0.64				\$33,650	16%
3	Fairfield Municipal Building											
	Bioretention systems	5,340	0.12	0.139	23	10,110	0.38	1,335	\$5	SF	\$6,675	4%
	Pervious pavement	6,500	0.15	0.169	28	12,300	0.46	6,500	\$25	SF	\$162,500	5%
	Total Site Info	11,840	0.27	0.308	52	22,410	0.84	,			\$169,175	9%
4	Fairton Post Office											
•	Bioretention system	390	0.01	0.010	2	740	0.03	100	\$5	SF	\$500	3%
	Pervious pavement	3,390	0.08	0.088	15	6,420	0.24	1,200	\$25	SF	\$30,000	22%
	Total Site Info	3,780	0.09	0.098	16	7,160	0.27	-,	+		\$30,500	24%
5	Victory in Christ Ministry											
5	Pervious pavement	5,300	0.12	0.138	23	10,030	0.38	1,000	\$25	SF	\$25,000	29%
	Total Site Info	5,300	0.12	0.138	23	10,030	0.38	1,000	$\psi 25$	51	\$25,000 \$25,000	29%
			V+1 #	0.100	20	10,000	0.00				<i>\\\L_3\\\\\</i>	<b>2</b> 7 / U
6	The Woodchucker, Inc.	<i></i>	0.01	0.01-			0.07	4.65	<b>.</b> -	~-	<b>\$</b> 0.55	
	Bioretention system	640	0.01	0.017	3	1,210	0.05	160	\$5	SF	\$800	2%
	Total Site Info	640	0.01	0.017	3	1,210	0.05				\$800	2%