

Natural Area Mapping and Inventory of Conference House Park

2012 Survey

Prepared by:



NYC Parks

City of New York Parks & Recreation
Forestry, Horticulture, and Natural Resources
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Conference House Park Natural Area Mapping & Inventory Surveyed 2012

286.382 acres

Introduction

The City of New York Parks & Recreation (Parks) manages one of the most extensive and varied parks systems of any city in the world. These 29,000 acres of city park property occupy about 15 percent of New York City's total area. In addition to flagship parks such as Central Park and Prospect Park, the city's parklands include over 11,000 acres of natural areas.

Until the 1980's, Parks was primarily concerned with developed landscapes and recreation facilities rather than natural areas. In the absence of a comprehensive management policy, these areas succumbed to invasive species, pollution and erosion. In 1984, Parks established the Natural Resources Group (NRG) with a mandate to acquire, restore, and manage natural areas in New York City. The wetlands, forests, meadows, and shorelines under Parks' jurisdiction provide valuable habitat for hundreds of species, from rare wildflowers to endangered birds of prey. To facilitate the protection, management and restoration of natural areas, NRG began an inventory of parkland using entitation, a process of identifying and describing ecologically distinct plant communities (or entities).

Entitation

Originally designed for European landscapes, the system was revised by NRG in 1985 for use in urban parkland. This method of inventory was chosen because it is well suited to the patchy environments often found in urban areas. The focus of this type of survey is to break down a landscape into discrete, manageable units based primarily on dominant vegetation; each unit is described as an "entitation unit". Entitation units are defined using a weighted list of criteria.

The following distinctions qualify entitation units:

- Vegetation cover type (e.g. closed forest, vineland, scrub)
- Dominant canopy vegetation (e.g. Norway maple, hickory, oak)
- Understory vegetation type (e.g. herbs, vines, shrubs)

Additional factors, such as topography, current use, environmental disturbance and soil condition (e.g. wet, moist, and dry) are also taken into account. Using aerial photographs and field reconnaissance, a landscape can be delineated and mapped into distinct ecological entities. These maps and descriptions will serve as baseline ecological data to plan and conduct natural areas management.

Data Collection

To prepare for fieldwork, mapping technicians examine aerial photographs, delineate areas of similar cover and create a strategy for on the ground surveys. In the field, boundaries are

identified as described based on ground cover and vegetation types. For each unit, staff records the data listed above, current uses, environmental disturbances, historical indicators, community stability, and a narrative description of the area including management concerns and notable other species present.

Once collected, all of this data is then entered into a central entitation database. The field maps are then digitized in ArcGIS with the boundaries of each unit recreated and linked to the entitation database. Once the digital map and database are linked maps can be created and information can be queried quickly. The final step is to convert the unit map and descriptions into a final report format.

Conference House Park Overview

Cultural and Natural History

At the southernmost tip of New York State, Conference House Park is a unique ecological and historic site.

Ecologically, the park supports several important systems and locally uncommon habitats, including coastal dunes and plains, tidal and freshwater wetlands including over a mile of coastline, and the northernmost hackberry-dominated forest in North America. Culturally, the park contains one of the largest and best preserved, and federally recognized, archaeological sites associated with the Lenape, a Native American tribe historically resident along the mid-Atlantic and northeastern coastline from Delaware to Connecticut, as well as three historic houses that showcase the history of settlement in the area and its important role in American history.

Long before Europeans settled this land, the Lene Lenape used this area, particularly the bluff, as a seasonal settlement. They traveled up and down the East Coast from the New York Harbor to the Delaware River basin, oystering, fishing, hunting, and trading. At one time, animals such as deer, turkeys, heath hen, black bears, beavers, wolves, red and gray foxes were plentiful in this region. The Lene Lenape also used the bluff as a burial ground, perhaps on the site of a burial ground previously established by a prehistoric culture. The unique hackberry forest in the northern part of the park is supported by alkaline surface soils, thought to be formed by thousands of years of oyster shell deposition from Native American settlements.

The Conference House, a 17th century manor house located on Hylan Boulevard just inside the park, was named after a dramatic meeting that shaped the history of the United States. Formerly a simple residence for the family that owned the Tottenville-Perth Amboy ferry, the house was selected as the location for peace talks between Benjamin Franklin, John Adams, Edward Rutledge, and British Lord Admiral Richard Howe in September of 1776, just two months after the Declaration of Independence had been signed, because of its proximity to and visibility from nearby New Jersey.

With the British controlling New York City, Long Island, and Staten Island, the Americans seemed headed for defeat. Lord Howe offered to end the conflict peacefully if the American colonies would return to British control, but the Americans refused to give up their struggle for

independence. Franklin, Adams, and Rutledge reported back to the Continental Congress in Philadelphia, and the Revolution continued for another seven years until American independence was finally won.

After the conference, the house became a multi-family dwelling, then a 19th-century traveler's inn, and finally a rat-poison manufacturing site before being deeded to the City of New York in 1926. In 1929 the Conference House Association took over operation of the house and has maintained it since then, in cooperation with the City of New York / Parks & Recreation and the Historic House Trust of New York City. Today, the Conference House is a historic site portraying life in colonial times situated on a 3.27-acre plot of Conference House Park.

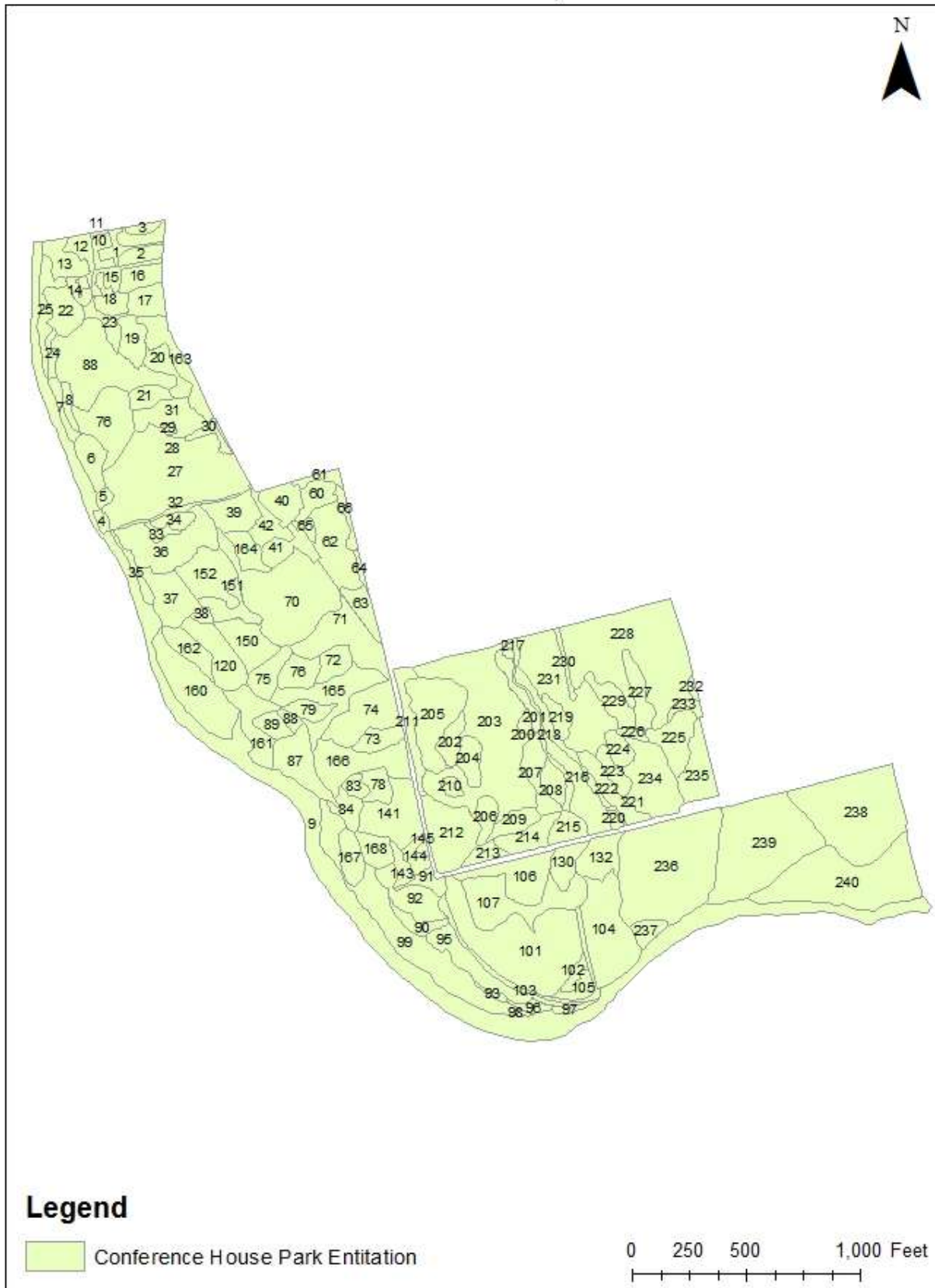
Current Use

The majority of Conference House Park today is a passive natural landscape, with paved trails allowing visitors access to the woods and shoreline. The natural areas of the park, along with Long Pond Park and adjacent New York State Department of Environmental Conservation lands, forms a valuable part of the Atlantic corridor for migrating birds and excellent breeding habitat for forest interior birds. Because the area surrounding these parks is among the least densely settled in New York City, these areas also provide unique habitat for many organisms that require more of a buffer from urban infrastructure.

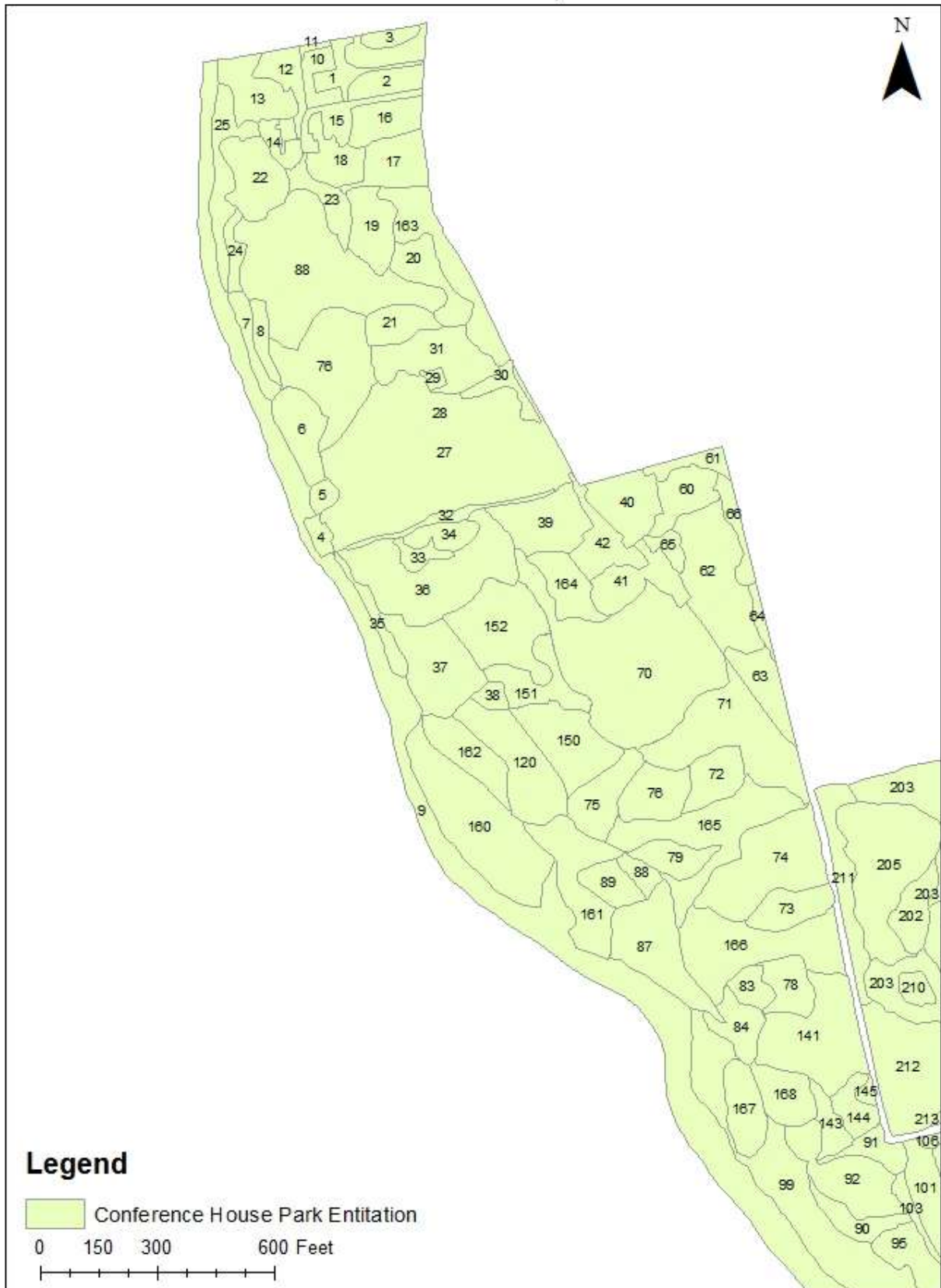
Restoration efforts have been underway since 2007 in the western and southern end of Conference House Park to address coastal erosion, invasion by exotic flora, and concerns related to diminished biodiversity. Changing weather patterns, such as increased frequency and intensity of storms in the region, are also of concern for ongoing park management. Superstorm Sandy, which had impacts across New York City in fall of 2012, did completely over wash the park. While the impacts of the storm were devastating, it also has highlighted the importance of areas with intact and resilient coastal forests, scrublands, dunes and marshes for protection. This inventory is intended to complement those efforts, guide future restoration activities, provide a baseline understanding of the natural systems of the park, as well as provide context and background for educational programs held at the park.

Technicians: Jason Stein, Leila Mougou Bakhtiari, Katerli Bounds, Clara Pregitzer, Neysha Vasquez, Andrew Peralta, David Conde, Jeremy Lessing

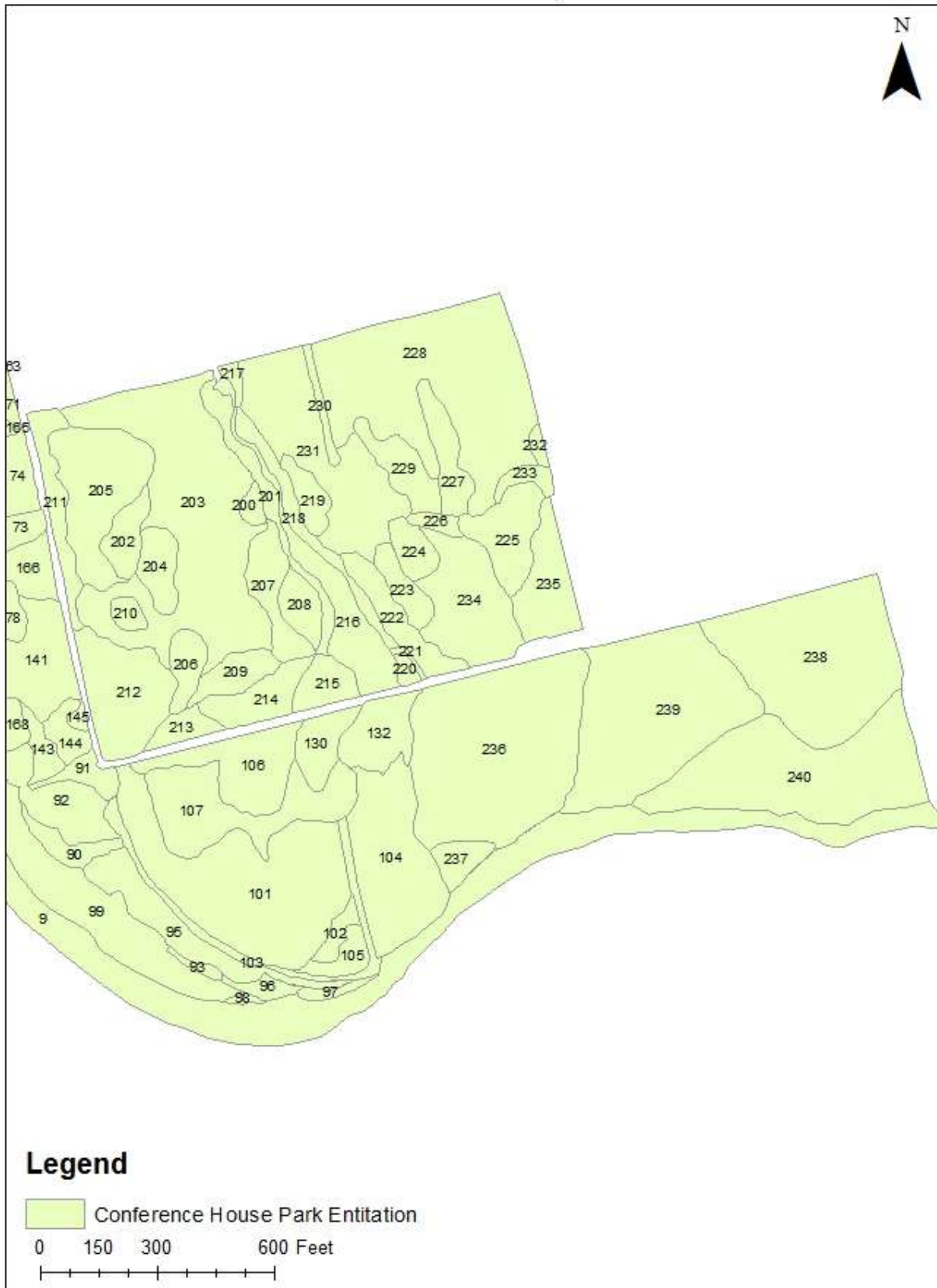
Conference House Park 2012 Entitation Staten Island, NY



Conference House Park 2012 Entitation Staten Island, NY



Conference House Park 2012 Entitation Staten Island, NY



Conference House Park Entitation Unit Descriptions, Surveyed 2012

Unit: 1 **Date of Visit:** 6/12/2012 **Species Composition Changing:** No
Acreage: 0.24 **Management Concern:** no **Community Structure Changing:** No
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Mugwort	<5'		Foundation Paved path	Parking lot Vehicle Other	
Level						
Dry						

Comments:

Scarcely vegetated unit containing the Biddle House, located in the northeastern corner of Conference House Park, bordered on the east by Satterlee St. Contains some ornamental shrubs including boxwood and hydrangea. Also features some day lily and mugwort in the small area at the center of the roundabout.

Unit: 2 **Date of Visit:** 6/12/2012 **Species Composition Changing:** no
Acreage: 0.56 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Road	Vehicle	Soil
Mixed	Plantain, common	<5'	yes		Foot traffic	
Hemicryptophytes	Clover, white	<5'	yes		Other	
Level	Oak, pin	>30'				
Dry/Moist	Pine, white	>30'				

Comments:

Lawn area on both sides of the road leading to the Biddle House from Satterlee St. and Shore Rd. This area is mowed regularly, and is punctuated by eastern white pines and pin oak.

Unit: 3 **Date of Visit:** 6/12/2012 **Species Composition Changing:** no
Acreage: 0.13 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a4

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	5'-30'	yes	Fence		
Mixed	Pine, white	>30'				
Geophytes	Hackberry	>30' & 5-				
Level	Sassafras	<5'				
Dry/Moist	Mustard, garlic	<5'	yes			
	Bittersweet	5'-30'	yes			

Comments:

Black locust dominated woodland with a mostly invasive understory. Several large white pines and mixed age hackberry and sassafras are also dominant. Burdened by park boundary and house to the north, with some possible encroachment. Unit is also close to the Biddle House. Understory dominated by garlic mustard, Oriental bittersweet, poison ivy, Virginia creeper.

Unit: 4 **Date of Visit:** 6/12/2012 **Species Composition Changing:** no
Acreage: 0.11 **Management Concern:** no **Community Structure Changing:** no
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated				Fence Other	Picnic Other	Trash
Level						
Dry						

Comments:

This is a pavilion located on the water's edge, made of painted wood. Foundation on piers with open space underneath, but nothing growing. (note: Since this entry, pavilion has been partially dismantled/destroyed and remains in ruins.)

Unit: 5 **Date of Visit:** 6/12/2012 **Species Composition Changing:** yes
Acreage: 0.11 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Planetree, London	>30'			Full-crown tree	
Deciduous	Mugwort	<5'	yes			
Hemicryptophytes	Cord grass	<5'				
Slope	Ailanthus	5'-30'	yes			
Dry	Mulberry, white	5'-30'	yes			
	Phragmites	<5'	yes			

Comments:

A small dune area on the northern side of the pavilion, with the sea-side area covered with cord grass, while the rest of the understory is mostly mugwort. Some Ailanthus trees are covered by porcelain berry. Scattered dandelion also present, as well as a full crown London planetree.

Unit: 6 **Date of Visit:** 6/12/2012 **Species Composition Changing:** yes
Acreage: 0.51 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	>30'	yes			Trash
Deciduous	Cottonwood, Eastern	>30' & 5-				
Lianas	Ailanthus	5'-30'	yes			
Slope	Bittersweet	<5'	yes			
Dry/Moist	Porcelain berry	<5'	yes			
	Virginia creeper	<5'				

Comments:

Situated between the beach and manicured lawn, this is an area of trees being taken over by vines. Additionally, some understory area is blanketed by Japanese knotweed.

Unit: 7 **Date of Visit:** 6/12/2012 **Species Composition Changing:** yes
Acreage: 0.23 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB@a4

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sassafras	>30'				
Deciduous	Locust, black	>30'	yes			
Geophytes	Ailanthus	5'-30'	yes			
Slope	Knotweed, Japanese	5'-30'	yes			
Dry/Moist	ivy, poison	<5'				
	Bittersweet	<5'	yes			

Comments:

This area is dominated by sassafras, with understory of Japanese knotweed, Japanese vine honeysuckle, and multiflora rose. Additionally there are some crab apple saplings.

Unit: 8 **Date of Visit:** 6/12/2012 **Species Composition Changing:** yes
Acreage: 0.18 **Management Concern:** yes **Community Structure Changing:** yes
Classification: VIIIA

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Knotweed, Japanese	<5'	yes			
Deciduous	Ailanthus	>30'	yes			
Geophytes	Porcelain berry	<5'	yes			
Level	Phragmites	5'-30'	yes			
Dry/Moist						

Comments:

A big patch dominated by Japanese knotweed, located between the water and sloped sassafras woodland. Phragmites becomes more predominant in gaps heading north.

Unit: 9 **Date of Visit:** 6/12/2012 **Species Composition Changing:** no
Acreage: 9.09 **Management Concern:** yes **Community Structure Changing:** no
Classification: VC1b

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	cord grass	<5'			Foot traffic	Trash
Deciduous	Virginia creeper	<5'			Bike/ ATV	Dumping
Lianas						
Slope						
Dry						

Comments:

Western shoreline of the park. Mostly sand and shells, with some Virginia creeper and cord grass bordering shoreline from denser forested areas. Driftwood and cut logs on beach mix with lots of trash.

Unit: 10 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.22 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'	yes	Hedgerow	Other	Soil
Mixed	Plantain, common	<5'	yes			Other
Hemicryptophytes	Clover, white	<5'	yes			
Level	boxwood	5'-30'	yes			
Dry/Moist	rose, ornamental	5'-30'	yes			
	yucca	<5'	yes			

Comments:

Lawn area surrounding the Biddle House, featuring a rose garden with a sitting area on the northern end. Plantain and clover dominate lawn. Ornamental plants such as boxwood hedges and rose border the Biddle House. Other plants present include white mulberry, yucca, Japanese knotweed, poison ivy, bittersweet, and Virginia creeper.

Unit: 11 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.03 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Mulberry, white	5'-30'	yes			Soil
Mixed	Ash, spp.	>30'				
Phanerophytes	Oak, pin	>30'				
Level	holly, American	5'-30'				
Dry/Moist	Walnut, black	>30'				
	Cherry, black	5'-30'				

Comments:

Small woodland area dominated by white mulberries, adjacent to Biddle House. Understory includes garlic mustard, Oriental bittersweet, and porcelain berry. Other understory plants include Virginia creeper, English ivy, yucca, and ragweed. Japanese knotweed present, as well as emergent sassafras.

Unit: 12 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.29 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Knotweed, Japanese	5'-30'	yes		Foot traffic	Trash
Deciduous	Walnut, black	5'-30'			Vehicle	
Phanerophytes	Cherry, black	5'-30'				
Slope	Sassafras	5'-30'				
Moist	Porcelain berry	<5'	yes			
	Paulownia	5'-30'	yes			

Comments:

Early successional, sloped woodland mixed with dense patches of Japanese knotweed on eastern upland edge, with dead/dying patch of sassafras in the center. The abundance of knotweed and paulownia, mixed with native materials, is a concern. This area also features an unpaved vehicular access path.

Unit: 13 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.51 **Management Concern:** yes **Community Structure Changing:** no
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Walnut, black	>30'			Foot traffic	Trash
Deciduous	Oak, pin	>30'				
Phanerophytes	Sassafras	5'-30'				
Slope	Cherry, black	5'-30'				
Moist	Oak, swamp white	5'-30'				
	Bittersweet	5'-30'	yes			

Comments:

Dense, sloped forest on the northern edge of the park, with understory of sassafras and black cherry, mixed with invasive vines and native herbs. Bordered on down slope side by Rhus maritime scrubland.

Unit: 14 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.17 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA3a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'	yes		Other	Soil
Deciduous	Porcelain berry	<5'	yes			
Geophytes	Plantain, common	<5'	yes			
Slope	Dayflower, Asiatic	<5'	yes			
Dry/Moist	Hackberry	5'-30'				
	maple, Japanese	5'-30'	yes			

Comments:

Lawn area bordering Rutan Beckett house and greenhouse. Garden in front of house dominated by milkweed, and includes asters, mugwort, Japanese maples and paper mulberry, as well as a black walnut. Invasive vines such as Oriental bittersweet and porcelainberry on edges of front lawn.

Unit: 15 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.38 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'	yes	Fence	Vehicle	Soil
Mixed	Dandelion	<5'	yes	Other	Foot traffic	
Hemicryptophytes	Clover, white	<5'	yes		Other	
Level	Cedar spp.	5'-30'				
Dry/Moist	Nightshade, common	<5'	yes			
	Magnolia spp.	5'-30'				

Comments:

Lawn area and paved parking lot surrounding residential house at dead end of Shore Rd. Ornamental cedars planted in front of house. Day lily, hydrangea, and magnolia tree also in yard area.

Unit: 16 **Date of Visit:** 6/28/2012 **Species Composition Changing:** yes
Acreage: 0.40 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'		Fence		Soil
Deciduous	Walnut, black	>30'				
Phanerophytes	Sassafras	5'-30'				
Level	Cherry, black	5'-30'				
Dry/Moist	Wintercreeper	<5'	yes			
	Mustard, garlic	<5'	yes			

Comments:

Woodland adjacent to parking lot, dominated by hackberries and emergent black walnuts, sassafras, and oaks. Woodland floor is carpeted by winter creeper, Oriental bittersweet, and garlic mustard. Understory comprised of mugwort, moonseed, bedstraw, catbrier, Japanese vine honeysuckle, Oriental bittersweet, and multiflora rose, as well as winged euonymus.

Unit: 17 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.49 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Road		Erosion
Deciduous	Walnut, black	>30'		Fence		Soil
Hemicryptophytes	Hackberry	>30'				
Level	Ailanthus	5'-30'	yes			
Dry	elm, American	5'-30'				
	Bittersweet	<5'	yes			

Comments:

Open, regularly mowed lawn area bordered by Satterlee St. on the eastern side. Contains a few large black walnut and hackberry trees, and ailanthus, which is a concern as a seed source. Additionally, there is some Oriental bittersweet and Japanese knotweed around the larger trees, and the house.

Unit: 18 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.38 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Walnut, black	>30'		Other	Foot traffic	Soil
Mixed	Hackberry	>30'			Other	
Phanerophytes	Knotweed, Japanese	5'-30'	yes			
Level	Paulownia	>30'	yes			
Dry/Moist	Porcelain berry	<5'	yes			
	Bittersweet	<5'	yes			

Comments:

Woodland dominated by black walnut and hackberry. Japanese knotweed borders the edges. Woodland floor is carpeted by crown vetch, Japanese vine honeysuckle, Oriental bittersweet, garlic mustard, and Virginia creeper. Bedstraw and grasses cover outer edges of the woodland. Porcelain berry drapes over smaller trees and shrubs, including spice bush, and white mulberry.

Unit: 19 **Date of Visit:** 7/31/2012 **Species Composition Changing:** no
Acreage: 0.50 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVB1c

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Aquatic (fresh)	Sycamore, American	>30'		Full-crown tree	Foot traffic	Trash
Deciduous	Rose mallow, swamp	<5'				Vandalism
Hemicryptophytes	Spicebush	5'-30'				Other
Depression	Jewelweed	<5'				
Moist	Knotweed, Japanese	5'-30'	yes			
	Wineberry	<5'	yes			

Comments:

Marshy area dominated by old sycamore fell in recent years, drastically opening the canopy of the site, but which is still alive and sprouting aggressively. Lower areas dominated by swamp rose mallow, and jewelweed, pokeweed, and spicebush surrounding the bowl shaped marsh. Other species present include Joe pye weed, deer tongue grass, green briar, Virginia creeper, and Oriental bittersweet. This area is a popular spot for feral cat colonies.

Unit: 20 **Date of Visit:** 7/31/2012 **Species Composition Changing:** yes
Acreage: 0.46 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Cool season grass	5'-30'	yes		Foot traffic	Trash
Deciduous	Multiflora rose	5'-30'	yes			
Hemicryptophytes	Rubus	<5'				
Level	Spicebush	5'-30'				
Dry/Moist	Honeysuckle spp.	5'-30'	yes			
	Locust, black	5'-30'	yes			

Comments:

Dense scrub dominated by grape, multiflora rose, blackberry, spicebush, and bush honeysuckle. The ground is covered in English ivy and poison ivy, and area generally is converting to a vineland.

Unit: 21 **Date of Visit:** 7/31/2012 **Species Composition Changing:** no
Acreage: 0.34 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	>30'	yes	Planting		Trash
Mixed	Walnut, black	>30'		Fence		
Phanerophytes	elm, American	>30'		Other		
Level	Hackberry	>30'				
Dry/Moist	Oak, pin	>30'				
	Sassafras	>30'				

Comments:

Woodland dominated by black locusts, black walnut, and American elm, bordered by a gravel road and wooden fence. Diverse understory of shrubs, herbs, and vines. Species include grape, Japanese vine honeysuckle, Japanese knotweed, Virginia creeper, and rubus. The eastern edge of the unit has been planted with Viburnum, junipers and pines.

Unit: 22 **Date of Visit:** 8/1/2012 **Species Composition Changing:** yes
Acreage: 0.61 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'		Restoration	Foot traffic	Trash
Deciduous	Knotweed, Japanese	5'-30'	yes			
Phanerophytes	Walnut, black	>30'				
Slope	Snakeroot, white	<5'				
Dry/Moist	Bittersweet	5'-30'	yes			
	Porcelain berry	<5'	yes			

Comments:

Woodland containing hackberries and black walnut trees, with strong presence of Japanese knotweed, white snakeroot and Oriental bittersweet. Wineberry and porcelainberry also abound. Floor is covered in poison ivy, ferns, with small amount of dodder. Sumac border the unit.

Unit: 23 **Date of Visit:** 8/1/2012 **Species Composition Changing:** yes
Acreage: 0.31 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'		Road		Trash
Deciduous	Pokeweed	5'-30'				
Phanerophytes	Walnut, black	>30'				
Undulating	Porcelain berry	5'-30'	yes			
Dry/Moist	Knotweed, Japanese	5'-30'	yes			
	Wineberry	5'-30'	yes			

Comments:

Hackberry woodland with black walnut and black cherries, ailanthus and emerging paulownias. Dominant species included pokeweed and porcelain berry which drapes plants on outer edge.

Unit: 24 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 0.16 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVB1c

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	5'-30'	yes	Full-crown tree		Trash
Deciduous	Knotweed, Japanese	5'-30'	yes			
Hemicryptophytes	Oak, pin	>30'				
Depression	Rose mallow, swamp	<5'				
Moist	Wineberry	<5'	yes			
	Cool season grass	<5'	yes			

Comments:

Herbaceous community mostly comprised of phragmites and Japanese knotweed. Pin oaks and swamp rose mallow are also present in the site, along with wineberry and grape. There is an uprooted full crown cottonwood in the site. There is also evidence of large deer activity here.

Conference House Park Entitation Unit Descriptions, Surveyed 2012

Unit: 25 **Date of Visit:** 8/1/2012 **Species Composition Changing:** yes
Acreage: 0.53 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Sumac, shining	5'-30'				Dumping
Deciduous	Ailanthus	>30'	yes			Trash
Phanerophytes	False indigo	5'-30'				
Level	Hackberry	5'-30'				
Moist	Knotweed, Japanese	5'-30'	yes			
	Virginia creeper	5'-30'				

Comments:

Maritime scrub bordering the shore. Ailanthus and winged sumac dominate, with false indigo present throughout unit. Virginia creeper covers some of the scrubland floor, Ailanthus and Japanese knotweed are a concern here.

Unit: 27 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 4.19 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA2f

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'	yes	Road	Picnic	Soil
Mixed	Oak, willow	>30'		Fence	Vehicle	
Geophytes	sycamore, American	>30'		Full-crown tree	Foot traffic	
Level	Oak, pin					
Dry/Moist	Pine spp.	>30'				
	Bald cyprus	5'-30'	yes			

Comments:

Manicured lawn area leading to and surrounding the historic Conference House. Large full-crown trees dot the turf. Paved roads and fences also run through the unit. Japanese knotweed encroaches on the edges.

Unit: 28 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 0.10 **Management Concern:** no **Community Structure Changing:** no
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	butterfly bush	5'-30'	yes	Fence	Other	
Deciduous	maple, Japanese	5'-30'	yes	Road		
Hemicryptophytes	Loosestrife, purple	5'-30'	yes	Exotic		
Level	fig tree	5'-30'	yes			
Dry/Moist	Snakeroot, white	<5'				

Comments:

This unit includes the historic Conference House and its adjacent ornamental garden, which is planted with largely exotic species, including butterfly bush, Japanese maple, fig tree, and purple loosestrife. Also features white snake root, tomatoes, and miscellaneous ornamentals.

Unit: 29 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 0.06 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	echinacea	<5'		Exotic	Other	
Deciduous	Pokeweed	<5'				
Hemicryptophytes	Bittersweet	<5'	yes			
Level	Elderberry	5'-30'				
Dry/Moist						

Comments:

Colonial herb garden features a variety of species, many planted for education purposes, including rosemary, pink yarrow, Solomon's seal, eupatorium spp. And ornamental rose. No dominant species present.

Unit: 30 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 0.20 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	elm, American	>30'		Road	Foot traffic	
Mixed	Hackberry	>30'		Fence		
Phanerophytes	Pine, white	>30'				
Level	Sycamore, American	>30'				
Dry/Moist	Bittersweet	5'-30'	yes			
	Porcelain berry	5'-30'	yes			

Comments:

Woodland area bordering the Conference House lawn, with a fence and road bordering the site. Sassafras and black-eyed Susan also present in patches.

Unit: 31 **Date of Visit:** 8/1/2012 **Species Composition Changing:** no
Acreage: 0.79 **Management Concern:** yes **Community Structure Changing:** no
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, pin	>30'		Road		Trash
Mixed	Hackberry	>30'		Fence		
Phanerophytes	elm, American	>30'				
Level	Locust, black	>30'	yes			
Dry/Moist	Cherry, black	>30'				
	Mulberry, white	>30'	yes			

Comments:

Closed forest adjacent to colonial garden, with a gate on the eastern edge by Satterlee St. Some sections of the forest floor covered in periwinkle, poison ivy and English ivy. Also some oriental bittersweet, porcelain berry, and Japanese vine honeysuckle moving in.

Unit: 32 **Date of Visit:** 8/2/2012 **Species Composition Changing:** yes
Acreage: 0.19 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Dogwood, silky	5'-30'		Road	Other	
Deciduous	Buttonbush	5'-30'		Other		
Chamaephytes	elm, American	>30'				
Depression	Knotweed, Japanese	5'-30'	yes			
Moist	Phragmites	5'-30'	yes			
	Oak, pin	>30'				

Comments:

Dense dogwood dominated scrub located south of the conference house. This unit is on its eastern and western edges by the gravel trails which feature culverts and artificial riprap as a drain. Japanese knotweed and phragmites are present in thick bunches. Pin oaks, mulberries, and a few black walnuts are also present. Understory comprised of Virginia creeper, bindweed, wineberry, Japanese vine honeysuckle, and scattered jewelweed.

Unit: 33 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 0.14 **Management Concern:** yes **Community Structure Changing:** no
Classification: VIIIA

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Bittersweet	5'-30'	yes	Road		
Deciduous	Porcelain berry	5'-30'	yes			
Lianas	Grape, wild	5'-30'				
Slope	Honeysuckle sp.	5'-30'	yes			
Dry/Moist	Walnut, black	5'-30'				
	Sassafras	>30'				

Comments:

Vineland dominated by oriental bittersweet and porcelain berry. This unit is adjacent to lower gravel road. This area is next to the south high restoration zone, and marks the edge of that project. Other species include moonseed, poison ivy, and jewelweed.

Unit: 34 **Date of Visit:** 11/20/2013 **Species Composition Changing:** yes
Acreage: 0.25 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Walnut, black	5'-30'		Restoration		Trash
Deciduous	Groundsel tree	5'-30'		Planting		
Hemicryptophytes	Goldenrod	<5'				
Level	Rubus	<5'				
Moist	Grass, switch	<5'				
	Wineberry	<5'	yes			

Comments:

This is the south high restoration zone. A mound most likely of fill, it was dominated by oriental bittersweet before restoration efforts targeted that vine, and aggressively planted herbs. Walnuts, groundsel, and other woody species are moving in, while the herbaceous community is thriving.

Unit: 35 **Date of Visit:** 8/2/2012 **Species Composition Changing:** yes
Acreage: 0.22 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Cottonwood, Eastern	>30'		Other	Foot traffic	Trash
Deciduous	Indigo, false	5'-30'				
Chamaephytes	Cool season grass	<5'	yes			
Slope	Locust, black	5'-30'	yes			
Dry/Moist	Oak, pin	>30'				
	Knotweed, Japanese	5'-30'	yes			

Comments:

Maritime scrub adjacent to southwest shore. This site is populated by trees shrubs and dune grasses, with Japanese knotweed moving in, as well as scattered pockets of mugwort, poison ivy, and Virginia creeper, as well as sumacs.

Unit: 36 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 1.50 **Management Concern:** yes **Community Structure Changing:** no
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	elm, American	>30'		Road	Foot traffic	
Deciduous	Oak, pin	>30'				
Phanerophytes	Sassafras	>30'				
Level	Mulberry, white	5'-30'	yes			
Dry/Moist	Bittersweet	5'-30'	yes			
	ivy, poison	<5'				

Comments:

Closed forest edged by lower gravel road. This unit is dominated by American elms and pin oaks, with an understory consisting of poison ivy, oriental bittersweet, Japanese vine honeysuckle, Virginia creeper, as well as spice bush, multiflora rose, and porcelain berry.

Unit: 37 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 0.92 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, pin	>30'		Road	Foot traffic	
Deciduous	Sassafras	>30'		Other		
Phanerophytes	Bittersweet	5'-30'	yes			
Level	ivy, poison	<5'				
Dry/Moist	Mugwort	5'-30'	yes			
	Knotweed, Japanese	5'-30'	yes			

Comments:

Pin oak and sassafras woodland edged by lower gravel road on the eastern side of the unit. Understory comprised of poison ivy, Japanese vine honeysuckle, moonseed, cat briar, and Virginia creeper. Some Japanese knotweed and mugwort border the edges of the site.

Unit: 38 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 0.12 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Porcelain berry	5'-30'	yes	Road	Foot traffic	
Deciduous	Bittersweet	5'-30'	yes			
Lianas	Pokeweed	5'-30'				
Level	Knotweed, Japanese	5'-30'	yes			
Dry/Moist	Ailanthus	5'-30'	yes			
	Mugwort	<5'	yes			

Comments:

Invasive herbaceous community dominated by porcelainberry, oriental bittersweet, and pokeweed. Lower gravel road borders eastern edge. Japanese knotweed and mugwort also present in unit.

Unit: 39 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 0.69 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, pin	>30'		Road	Foot traffic	
Deciduous	Sumac sp.	>30'				
Phanerophytes	Mulberry, white	>30'	yes			
Level	Porcelain berry	5'-30'	yes			
Dry	Sycamore, common	5'-30'				
	Knotweed, Japanese	5'-30'	yes			

Comments:

Pin oak woodland with sumacs, mulberries, as well as sassafras. Invasives include porcelain berry and Japanese knotweed. The understory comprises Virginia creeper and poison ivy. The unit is bordered by the lower gravel road on its eastern edge.

Unit: 40 **Date of Visit:** 11/20/2013 **Species Composition Changing:** no
Acreage: 0.57 **Management Concern:** no **Community Structure Changing:** no
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated Mixed Phanerophytes Level Dry	Pine, white Viburnum spp.	5'-30' <5'		Planting	Parking lot	

Comments:

Parking lot unit bordering the Conference House visitor center and Hylan Blvd. Scarcely vegetated except for an ornamental traffic island features eastern white pines, and cranberry bush viburnum.

Unit: 41 **Date of Visit:** 8/2/2012 **Species Composition Changing:** no
Acreage: 0.54 **Management Concern:** no **Community Structure Changing:** no
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated Deciduous Phanerophytes Level Dry/Moist	Oak, pin Crape myrtle Sugar maple Kentucky coffee tree Cool season grass Joe-Pye weed	>30' 5'-30' 5'-30' 5'-30' <5' 5'-30'		Exotic	Parking lot Vehicle	

Comments:

Parking lot with garden median partially vegetated. Garden also includes elderberry, Crape myrtle, and hydrangeas.

Unit: 42 **Date of Visit:** 11/20/2013 **Species Composition Changing:** no
Acreage: 0.45 **Management Concern:** no **Community Structure Changing:** no
Classification: IVA2g

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese holly	<5'	yes		Foot traffic	
Deciduous	butterfly bush	<5'	yes			
Hemicryptophytes	Cool season grass	<5'	yes			
Level	Oak, red	>30'				
Dry/Moist	plum tree	5'-30'	yes			
	Dogwood spp.	<5'	no			

Comments:

Area including visitor center and lawn in front of visitor center. Lots of deer marks on smaller trees. Other spp. Include ornamental cherry.

Unit: 60 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 0.43 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Honeysuckle, J.	5'-30'	yes	Restoration		Dumping
Deciduous	Catbrier	5'-30'				Trash
Chamaephytes	Multiflora rose	5'-30'	yes			
Level	Knotweed, Japanese	5'-30'	yes			
Moist	Sassafras	5'-30'				
	Spicebush	5'-30'	no			

Comments:

Small open area dominated by honeysuckle and catbrier. Lots of downed trees, and small sassafras moving in.

Unit: 61 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 0.19 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sweetgum	>30'		Planting	Foot traffic	Dumping
Deciduous	Oak, pin	>30'		Restoration		Trash
Phanerophytes	Oak, white	>30'				
Level	Hackberry	>30'				
Moist	Catbrier	5'-30'				
	Honeysuckle sp.	5'-30'	yes			

Comments:

Small woodland dominated by a large sweetgum with smaller oaks and hackberries coming in. Catbrier and vine honeysuckle dominate understory.

Unit: 62 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 1.20 **Management Concern:** yes **Community Structure Changing:** no
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, pin	>30'		Full-crown tree		Trash
Deciduous	Walnut, black	>30'		Exotic		
Phanerophytes	Sweetgum	>30'				
Level	Sassafras	>30'				
Moist	Witch hazel	5'-30'				
	Hackberry	>30'				

Comments:

Closed canopy pin oak forest with understory of witch hazel, viburnum, and catbrier

Unit: 63 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 0.41 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Multiflora rose	5'-30'	yes	Planting		Dumping
Deciduous	Bittersweet	5'-30'	yes	Restoration		Trash
Phanerophytes	Cherry, black	>30'		Other		
Level	Honeysuckle sp.	5'-30'	yes			
Moist	Walnut, black	>30'				
	Hackberry	5'-30'				

Comments:

Small open area mixing multiflora rose with black cherries and smaller hackberries. Bittersweet starting to take over smaller trees in scrub. Phragmites coming in the southern edge closer to Massachusetts Ave. Dumping of Callery pear branches and other downed trees.

Unit: 64 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 0.09 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sweetgum	>30'		Fence		Dumping
Mixed	Oak, pin	>30'		Planting		Trash
Chamaephytes	Phragmites	5'-30'	yes			
Level	Honeysuckle sp.	5'-30'	yes			
Moist	ivy, poison	5'-30'				
	Bittersweet	<5'	yes			

Comments:

Woodland edge with stand of phragmites and open canopy area dominated by poison ivy. It looks as though some trees have been planted, though they are overrun by vines.

Unit: 65 **Date of Visit:** 11/28/2012 **Species Composition Changing:** yes
Acreage: 0.14 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	>30'		Fence		
Deciduous	Ash, spp.	5'-30'		Exotic		
Phanerophytes	Oak, pin	5'-30'				
Level	Viburnum spp.	5'-30'				
Moist	Knotweed, Japanese	5'-30'	yes			
	Locust, black	5'-30'	yes			

Comments:

Area adjacent to parking lot, with variety of saplings, dominated by knotweed, but also including cedar and willow. Large numbers of small ash are reforming this parcel into woodland.

Unit: 66 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 0.21 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Catbrier	<5'		Fence		Dumping
Mixed	Sassafras	5'-30'				Trash
Phanerophytes	Ailanthus	5'-30'	yes			
Level	Mugwort	<5'	yes			
Moist	Honeysuckle sp.	<5'	yes			

Comments:

Open edge with trash and plant cuttings dumped. Also concrete slabs. Has a fir and cedar with guy-lines planted, possibly by neighbors. Also present are winged euonymus, winter creeper, and multiflora rose outside the fence.

Unit: 70 **Date of Visit:** 11/28/2012 **Species Composition Changing:** no
Acreage: 2.93 **Management Concern:** yes **Community Structure Changing:** no
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Hackberry	>30'		Full-crown tree	Foot traffic	
Deciduous	Oak, pin	>30'				
Phanerophytes	Ash, spp.	>30'				
Level	elm spp.	>30'				
Moist	Cool season grass	5'-30'	yes			
	Spicebush	5'-30'				

Comments:

Hackberry and Pin Oak forest with spicebush and grape understory, featuring several 'lone wolf' ash trees at southern end. Eastern side has extensive blow down.

Unit: 71 **Date of Visit:** 11/30/2012 **Species Composition Changing:** no
Acreage: 1.41 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Walnut, black	>30'		Fence	Foot traffic	
Deciduous	Hackberry	>30'				
Phanerophytes	elm spp.	>30'				
Level	Oak, white	>30'				
Dry/Moist	Cherry, black	5'-30'				
	Sumac sp.	5'-30'				

Comments:

Diverse woodland composed of black walnut, hackberry, elm and white oak. Black cherry and sumac also present along with some blackberry, wineberry, motherwort, oriental bittersweet, garlic mustard, Japanese vine honeysuckle, and grape.

Unit: 72 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 0.41 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Mugwort	<5'	yes	Road	Foot traffic	
Deciduous	Blackberry	<5'				
Chamaephytes	Wineberry	5'-30'	yes			
Level	Hackberry	5'-30'				
Dry/Moist	Porcelain berry	<5'	yes			
	Dogwood, red osier	<5'				

Comments:

Scrubland on its way to becoming a vineland, understory also features garlic mustard, oriental bittersweet and Japanese vine honeysuckle.

Unit: 73 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 0.41 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	5'-30'		Road	Foot traffic	
Mixed	Juniper	5'-30'		Planting		
Phanerophytes	Pine, pitch	5'-30'				
Level	Hackberry	>30'				
Dry/Moist	Oak, white	>30'				
	Honeysuckle sp.	<5'	yes			

Comments:

Early to mid-successional forest bordered by Craig Ave gravel road. Mostly dominated by cottonwood and Juniper. There is a concern for the honeysuckle and oriental bittersweet moving in. Mullein also present on the forest floor.

Unit: 74 **Date of Visit:** 11/30/2012 **Species Composition Changing:** no
Acreage: 1.26 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Osage Orange	>30'		Fence	Other	
Deciduous	Hackberry	5'-30'		Full-crown tree		
Phanerophytes	Silver maple	>30'				
Level	Ash, spp.	5'-30'				
Dry/Moist	Grape, wild	5'-30'				
	Hickory, bitternut	<5'	no			

Comments:

Young woodland with full crown Osage orange and silver maple. Privet, burning bush, and pin oak also present, as well as Japanese vine honeysuckle, and bittersweet.

Unit: 75 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 0.52 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'		Road		Trash
Deciduous	Honeysuckle sp.	5'-30'	yes			
Phanerophytes	Osage Orange	>30'				
Undulating	Multiflora rose	5'-30'	yes			
Moist	Bittersweet	5'-30'	yes			
	Knotweed, Japanese	5'-30'	yes			

Comments:

Small hackberry woodland with understory of vine honeysuckle, multiflora rose, and privet. Borders upper gravel road on its western edge.

Unit: 76 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 0.50 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Mugwort	<5'	yes	Road	Foot traffic	
Deciduous	Hackberry	5'-30'				
Chamaephytes	Sumac sp.	5'-30'				
Undulating	Wineberry	<5'	yes			
Dry/Moist	Blackberry	<5'				
	Knotweed, Japanese	5'-30'	yes			

Comments:

Scrub with Japanese vine honeysuckle moving in. Structure slowly transitioning into vineland.

Unit: 78 **Date of Visit:** 11/30/2012 **Species Composition Changing:** no
Acreage: 0.38 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Osage Orange	>30'			Foot traffic	Dumping
Deciduous	Hackberry	5'-30'				
Phanerophytes	Wineberry	<5'	yes			
Undulating	Mugwort	<5'	yes			
Dry/Moist	Horseweed	<5'				
	Honeysuckle sp.	<5'	yes			

Comments:

Woodland with young paper mulberry and callery pear moving in. Understory also includes motherwort, oriental bittersweet, mullein, and bush honeysuckle.

Unit: 79 **Date of Visit:** 11/30/2012 **Species Composition Changing:** no
Acreage: 0.32 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Hackberry	5'-30'			Foot traffic	
Deciduous	Sumac sp.	5'-30'				
Phanerophytes	Ash, spp.	5'-30'				
Level	Privet	<5'	yes			
Dry/Moist	Mustard, garlic	<5'	yes			
	Dogwood spp.	<5'				

Comments:

Scrub bordered by upper gravel road on the western edge. Understory also features horseweed.

Unit: 83 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.20 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Mugwort	<5'	yes	Full-crown tree		Other
Deciduous	Oak, white	>30'				
Chamaephytes	Wineberry	5'-30'	yes			
Level	Honeysuckle, J.	5'-30'	yes			
Dry/Moist	Cherry, black	5'-30'				
	Bittersweet	5'-30'	yes			

Comments:

Mugwort field surrounded by vines and dotted with oaks, bordered by MacDonald Ct. on the north. This area shows very high deer activity. Other species include boxelder privet, and callery pear features full-crown white oak.

Unit: 84 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.37 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, pin	>30'		Road	Foot traffic	Soil
Deciduous	Hackberry	5'-30'				Trash
Phanerophytes	Bittersweet	5'-30'	yes			Other
Undulating	Cherry, black	5'-30'				
Dry/Moist	ivy, poison	5'-30'				
	ivy, English	5'-30'	yes			

Comments:

Woodland split by upper gravel road, covered in rack from Hurricane Sandy. Dominated by pin oaks, and hackberries.

Unit: 87 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.96 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'			Foot traffic	Erosion
Deciduous	Ailanthus	5'-30'	yes			Trash
Phanerophytes	Mulberry, white	5'-30'	yes			Other
Level	Cherry, black	5'-30'				
Dry/Moist						

Comments:

Small woodland area dominated by hackberries, this area was impacted by Hurricane Sandy.

Unit: 88 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.00 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	>30'			Foot traffic	Erosion
Deciduous	Bittersweet	5'-30'	yes			Vandalism
Phanerophytes	Viburnum spp.	5'-30'				Trash
Slope	Oak, white	5'-30'				
Dry/Moist	Honeysuckle, J.	5'-30'	yes			

Comments:

Sloped woodland strip dominated by hackberries, with invasion of oriental bittersweet, vine and bush honeysuckle, and wineberry.

Unit: 89 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.44 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cherry, black	5'-30'			Foot traffic	Erosion
Deciduous	Hackberry	5'-30'				Trash
Phanerophytes	Bittersweet	5'-30'	yes			Other
Slope	Wineberry	<5'	yes			
Dry/Moist	Mugwort	<5'	yes			
	Honeysuckle, J.	<5'	yes			

Comments:

Sloped woodland adjacent to dunes, transitioning into vineland. Includes rack from Hurricane Sandy.

Unit: 90 **Date of Visit:** 12/4/2012 **Species Composition Changing:** no
Acreage: 0.30 **Management Concern:** yes **Community Structure Changing:** yes
Classification: VC2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Ailanthus	5'-30'	yes			Erosion
Deciduous	Knotweed, Japanese	<5'	yes			Trash
Phanerophytes	Sassafras	5'-30'				
Slope	Bittersweet	<5'	yes			
Dry/Moist	Grape, wild	<5'				

Comments:

This sandy coastal area adjacent to dunes was scoured by Hurricane Sandy, forming a matrix of Ailanthus, Japanese knotweed, and vines, it buffered the sassafras stand immediately inland. Most of the vegetation was apparently swept away here, leaving behind open sand, with some small sassafras saplings.

Unit: 91 **Date of Visit:** 12/4/2012 **Species Composition Changing:** yes
Acreage: 0.26 **Management Concern:** yes **Community Structure Changing:** yes
Classification: VCE

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Oak, pin	>30'		Road	Foot traffic	
Deciduous	Mulberry, white	5'-30'	yes	Fence		
Phanerophytes	Grape, wild	5'-30'		Restoration		
Level	Cherry, black	5'-30'				
Dry	Bittersweet	<5'	yes			

Comments:

This area covered in debris from Hurricane Sandy, much of which has been plowed into piled on the edge of the path. Debris includes washed up detritus, as well as porter potties from the fall 2012 planting that occurred near here. A few taller oaks remain, but most of the former vegetation has been washed away and/or covered.

Unit: 92 **Date of Visit:** 12/4/2012 **Species Composition Changing:** yes
Acreage: 0.63 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sassafras	>30'				Trash
Deciduous	Bittersweet	<5'	yes			Other
Phanerophytes	ivy, English	<5'	yes			
Level	Honeysuckle sp.	5'-30'	yes			
Dry/Moist	Grape, wild	<5'				

Comments:

Small sassafras grove with oriental bittersweet and formerly English ivy ground cover, this area was badly damaged by Hurricane Sandy. Down trees and rack cover the ground with several feet of debris and sand in places. English ivy no longer visible at all on the ground. Remains to be seen if/how the sassafras will recover.

Unit: 93 **Date of Visit:** 12/4/2012 **Species Composition Changing:** yes
Acreage: 0.07 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Sumac sp.	5'-30'		Restoration		Erosion
Deciduous	Ailanthus	>30'	yes			Trash
Phanerophytes	false indigo	5'-30'				Other
Level	Bittersweet	5'-30'	yes			
Dry						

Comments:

Scrubby area bordering dune grasses and southern end of 'Lower Shore' planting area, this was scoured by Hurricane Sandy. Many of the trees are leaning, and it remains to be seen if this sumac and ailanthus grove rebounds.

Unit: 95 **Date of Visit:** 12/4/2012 **Species Composition Changing:** yes
Acreage: 0.85 **Management Concern:** yes **Community Structure Changing:** yes
Classification: V

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Oak, pin	<5'				
Deciduous	Oak, red	<5'				
Phanerophytes	Pine, pitch	<5'				
Level	Box Elder	<5'				
Dry/Moist	Oak, black	<5'				
	Cherry, black	<5'				

Comments:

PlaNYC site "Lower Shore", planted the day before Hurricane Sandy, was completely inundated by tidal swell, leaving the area scoured, and covered with sand. 3700 trees and shrubs were planted, of which many remain, large numbers bent over. This area had been treated aggressively for knotweed prior to the planting. Area is now scrubby desert with the few larger mulberry trees uprooted. Plant species listed reflect what was planted, not what is known of what survived.

Unit: 96 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.16 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	yes	Road		Trash
Deciduous	Phragmites	<5'	yes			
Hemicryptophytes	Ailanthus	5'-30'	yes			
Level	Bittersweet	<5'	yes			
Moist	Cool season grass	<5'	yes			
	Goldenrod, seaside	<5'				

Comments:

This unit was scoured and reshaped by the storm and a lot of sand washed into the unit. There is a patch of ailanthus and there used to be a lot of oriental bittersweet, though much of this was washed away. The unit is an herbaceous area next to the former planting site.

Unit: 97 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.10 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'	yes		Foot traffic	Trash
Deciduous	Cool season grass	<5'	yes			
Hemicryptophytes	Bittersweet	<5'	yes			
Level	Ailanthus	<5'	yes			
Moist	False indigo	<5'				
	Locust, honey	5'-30'				

Comments:

This unit is phragmites with a pocket of honey locust. It is located at the end of the "Lower Shore", and is next to the main path.

Unit: 98 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.04 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Grass, dune	<5'				Trash
Deciduous	false indigo	<5'				
Hemicryptophytes	Mugwort	<5'	yes			
Level	Ailanthus	<5'	yes			
Moist	Knotweed, Japanese	<5'	yes			
	Goldenrod, seaside	<5'				

Comments:

This unit is the edge of a dune system which also includes some prickly pear cactus which had been planted in the area. Most of the area has been washed off the storm damage, and the water level has risen so the beach area is smaller than in the aerial photos.

Unit: 99 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 2.63 **Management Concern:** no **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Grass, dune	<5'				Trash
Deciduous	Goldenrod, seaside	<5'				
Hemicryptophytes	Locust, black	<5'	yes			
Level	False indigo	<5'				
Moist	Cool season grass	<5'	yes			
	Bittersweet	<5'	yes			

Comments:

This unit is a dune system that is covered with grass dunes, some occasional Spartina and a lot of seaside goldenrod. There is some false indigo and black locust dispersed in the unit. There are some Ailanthus trees on both edges.

Unit: 101 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 3.44 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Oak, pin	>30'		Road		
Deciduous	Hackberry	>30'		Restoration		
Phanerophytes	Pilewort	<5'				
Level	Mulberry, white	5'-30'	yes			
Dry/Moist	Pokeweed	<5'				
	Knotweed, Japanese	<5'	yes			

Comments:

This unit is a reforestation site, with different species of oaks, pines, and sycamores planted. Some big pin oak and hackberry are scattered in the unit. The understory contains pokeweed, Japanese knotweed, phragmites, and annual wormwood. There were two roads that were covered in debris before the reforestation happened, and now post-Sandy the debris is gone and the roads show through.

Unit: 102 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.18 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Knotweed, Japanese	<5'	yes	Road		Trash
Deciduous	Pokeweed	<5'				
Hemicryptophytes	Rubus	<5'				
Level	Bittersweet	<5'	yes			
Dry/Moist	Multiflora rose	<5'	yes			
	Porcelain berry	<5'	yes			

Comments:

This unit is a patch of mixed invasive plants that is next to the reforestation site and was not cleared. There is a lot of Japanese knotweed, pokeweed, and multiflora rose. The unit is next to the road.

Unit: 103 **Date of Visit:** 12/7/2012 **Species Composition Changing:** yes
Acreage: 0.58 **Management Concern:** no **Community Structure Changing:** yes
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Pokeweed	<5'		Road		
Deciduous	Knotweed, Japanese	<5'	yes			
Hemicryptophytes	Goldenrod	<5'				
Level	Phragmites	<5'	yes			
Dry	Mullein, common	<5'	yes			
	Cool season grass	<5'				

Comments:

This unit is two sidewalks and one big road going to the water that was revealed after the storm.

Unit: 104 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 1.92 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'	yes	Road		Trash
Deciduous	Knotweed, Japanese	<5'	yes			
Geophytes	Goldenrod	<5'				
Depression						
Surface water						

Comments:

This unit is a depression area with surface water and mostly Phragmites. It is next to the road, and there are little ponds still in the area from when the water rose after the storm.

Unit: 105 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.26 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Knotweed, Japanese	<5'	yes			
Deciduous						
Geophytes						
Level						
Dry/Moist						

Comments:

This unit is a Japanese knotweed patch next to the reforestation site bordering the road.

Unit: 106 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 1.06 **Management Concern:** no **Community Structure Changing:** no
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, pin	>30'		Road	Foot traffic	Trash
Deciduous	Silver maple	>30'				
Lianas	Hackberry	5'-30'				
Level	Mulberry, white	5'-30'	yes			
Dry/Moist	Grape, wild	<5'				
	Multiflora rose	<5'				

Comments:

This is a pin oak woodland with some big silver maples. There are invasives in the understory. The unit is located next to Billop Ave.

Unit: 107 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 1.61 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a4

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Knotweed, Japanese	5'-30'	yes	Road		Trash
Deciduous	Cherry, black	>30' & 5-				
Geophytes	Bittersweet	<5'	yes			
Level	Honeysuckle, J.	<5'	yes			
Dry/Moist	Hickory, bitternut	>30' & 5-				
	Multiflora rose	<5'	yes			

Comments:

This unit is a woodland between Billop Ave and the reforestation site, dominated by Japanese knotweed. Other species include grape and trumpet creeper.

Unit: 120 **Date of Visit:** 12/7/2012 **Species Composition Changing:** no
Acreage: 0.94 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Wineberry	<5'	yes	Road	Foot traffic	
Deciduous	Raspberry, black	<5'				
Phanerophytes	Bittersweet	5'-30'	yes			
Level	Honeysuckle J.	<5'	yes			
Dry/Moist	Multiflora rose	5'-30'	yes			
	Goldenrod	<5'				

Comments:

Dense scrub area dominated by wineberry and other invasives, bordered by lower gravel rd on the eastern edge. Scrub floor carpeted by garlic mustard and Japanese vine honeysuckle. Small trees in the unit include Ailanthus, Sassafras and black locust.

Unit: 130 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 0.45 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Pokeweed	<5'		Road		Erosion
Deciduous	Hickory, bitternut	<5' & 5-30'				Trash
Phanerophytes	Grape, wild	<5'				Other
Level	Cool season grass	<5'				
Dry/Moist	Sycamore, common	<5' & 5-30'				

Comments:

'Billop Planting Area' was restored and planted with around 1500 trees and shrubs. This area borders Billop Ave trail and marshland. It was heavily impacted by Hurricane Sandy. The ground was scoured, revealing an underground roadway, and was left covered in Phragmites cane.

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Unit: 132 **Date of Visit:** 11/20/2013 **Species Composition Changing:** no
Acreage: 0.30 **Management Concern:** no **Community Structure Changing:** no
Classification: VIIA1b2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Intertidal	Groundsel tree	5'-30'			Restoration	
Deciduous	Birch, river	>30' & 5-			Other	
Hemicryptophytes	Red maple	5'-30'				
Level	Viburnum spp.	<5'				
Wet	Multiflora rose	<5'	yes			
	Phragmites	<5'	yes			

Comments:

This unit contains the Conference House DEP bluebelt project and the banks along the outflow. Most of the mature natives were planted by DEP. It is adjacent to the Phragmites patch and the bridge from the other side.

Unit: 141 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 1.25 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Porcelain berry	<5'	yes		Road	Erosion
Deciduous	Ailanthus	5'-30'	yes			
Phanerophytes	Hackberry	5'-30'				
Depression	Box Elder	5'-30'				
Dry/Moist	Grape, wild	<5'				
	Ash, spp.	<5'				

Comments:

Area totally scoured by Hurricane Sandy. Some small trees remain. Ground covered in rackline forms inland boundary. There is a grove of box elder at the southern end.

Unit: 143 **Date of Visit:** 12/19/2012 **Species Composition Changing:** no
Acreage: 0.23 **Management Concern:** no **Community Structure Changing:** no
Classification: VE

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated				Road	Vehicle	

Level
 Moist

Comments:

This unit is just west up the gravel path from the 'four corners' area where Billop and Surf Ave intersect. The area is scoured, covered in rack, and then bulldozed to recover the carriage path underneath.

Unit: 144 **Date of Visit:** 12/19/2012 **Species Composition Changing:** no
Acreage: 0.27 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sassafras	>30'		Planting		
Mixed	Locust, black	5'-30'	yes			
Phanerophytes	Sycamore, common	5'-30'				
Level	Oak, pin	<5'				
Dry/Moist	elm, American	5'-30'				
	Linden	>30'				

Comments:

Woodland patch with planted cedars. Also features Oriental bittersweet, porcelain berry, callery pear, and mugwort in the understory. Known as 'four corners', this is the intersection of the Billop Ave and Surf Ave paths.

Unit: 145 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 0.06 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	5'-30'				
Deciduous	Privet	>30' & 5-	yes			
Phanerophytes	Oak, swamp white	5'-30'				
Level	Honeysuckle J.	<5'	yes			
Dry/Moist						

Comments:

Early successional forest bordered by Surf Ave path on its eastern side, this unit is dominated by young cottonwood.

Unit: 150 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 0.81 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Grass, switch	<5'		Road	Vehicle	
Deciduous	Goldenrod	<5'		Restoration		
Hemicryptophytes	Pokeweed	<5'				
Depression	Knotweed, Japanese	5'-30'	yes			
Dry/Moist	Rubus	<5'				
	Mullein, common	<5'	yes			

Comments:

Restored meadow area planted with herbaceous plugs, and with resurgent Japanese knotweed patch at the southern end. This area marks the southern terminus of the area known as 'south center', at the junction of the upper and lower gravel roads.

Unit: 151 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 0.24 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Grape, wild	5-30'				
Deciduous	Multiflora rose	<5'	yes			
Lianas	Honeysuckle sp.	<5'	yes			
Level	Mulberry spp.	5'-30'	yes			
Dry/Moist	Spicebush	<5'				
	Bittersweet	<5'	yes			

Comments:

Area between the two gravel roads on the eastern edge of the south shore area with some hackberry. Deer rubbing on the trees.

Unit: 152 **Date of Visit:** 12/19/2012 **Species Composition Changing:** no
Acreage: 0.73 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sassafras	>30' & 5-				
Deciduous	Red maple	>30' & 5-				
Phanerophytes	Oak, pin	>30' & 5-				
Level	Spicebush	5'-30'				
Dry/Moist	Grape, wild	<5'				
	Honeysuckle J.	<5'	yes			

Comments:

Mature sassafras forest with maples and hackberries, as well as spicebush, grape, privet.

Unit: 160 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 1.64 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Cottonwood, Eastern	>30'				
Deciduous	Ailanthus	5'-30'	yes			
Phanerophytes	Bittersweet	<5'	yes			
Undulating	Oak, pin	5'-30'				
Dry	grass, dune	<5'				
	Locust, black	5'-30'	yes			

Comments:

Scrubby dune area between the beach and forest bluffs to the east. Occasional bonfires occur here.

Unit: 161 **Date of Visit:** 12/19/2012 **Species Composition Changing:** no
Acreage: 0.87 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIIB1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Oak, pin	5'-30'			Foot traffic	Erosion
Deciduous	Ailanthus	5'-30'	yes			Trash
Phanerophytes	Sumac sp.	<5'				Vandalism
Depression	Bittersweet	<5'	yes			
Dry	Mugwort	<5'	yes			
	Multiflora rose	<5'	yes			

Comments:

Low area between dunes and uphill forest.

Unit: 162 **Date of Visit:** 12/19/2012 **Species Composition Changing:** no
Acreage: 0.52 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sassafras	>30'				
Deciduous	Cherry, black	5'-30'				
Phanerophytes	Bittersweet	5'-30'	yes			
Level	Honeysuckle J.	<5'	yes			
Dry/Moist	Hackberry	<5'				
	ivy, poison	<5'				

Comments:

Upland wooded area with bluff. Also features Japanese knotweed, Ailanthus and rubus. Major blowdown jeopardizes the area.

Unit: 163 **Date of Visit:** 6/28/2012 **Species Composition Changing:** no
Acreage: 0.79 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, swamp white	>30'				
Deciduous	Hackberry	>30'				Foot traffic
Phanerophytes	Paulownia	5'-30'	yes			
Slope	Mulberry, paper	5'-30'	yes			
Moist	Oak, pin	5'-30'				
	Sassafras	5'-30'				

Comments:

Sloped woodland featuring mature swamp white oaks, with pockets of paper mulberry and paulownia, and understory of bittersweet, black cherry, and invasive vines. Bordered on southern end by the Rutan-Beckett house and lawn.

Unit: 164 **Date of Visit:** 7/31/2012 **Species Composition Changing:** yes
Acreage: 0.44 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	>30' & 5-	yes	Fence		
Deciduous	Grape, wild	<5'		Planting		
Chamaephytes	Multiflora rose	<5'	yes			
Level	Blackberry	<5'				
Dry/Moist	Wineberry	<5'	yes			
	Bittersweet	<5'	yes			

Comments:

Woodland bordered by a wooden fence along Satterlee St. on the eastern side, featuring mostly black locust, many of which have been wind thrown. Understory a scrubby thicket of blackberry, rose, and vines. Also features pin oaks Japanese vine honeysuckle, porcelain berry, and black walnuts which were planted along the fence line.

Unit: 165 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 1.25 **Management Concern:** yes **Community Structure Changing:** no
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Grass spp.	<5'		Restoration		Other
Deciduous	Grape, wild	<5' & 5-30'				
Hemicryptophytes	Walnut, black	5'-30'				
Level	Wineberry	<5'	yes			
Dry/Moist	Honeysuckle, Japanese	<5'	yes			
	Rubus	<5'				

Comments:

Southern section of 'South Low Restoration Area', bordered by the gravel path to the west, canopied forest to the south. This area is a grassy meadow/scrub dotted with black walnuts, with Rubus and grape coming in aggressively. Additionally, there is a patch of coral berry at the southern edge. High deer activity evident.

Unit: 166 **Date of Visit:** 11/30/2012 **Species Composition Changing:** yes
Acreage: 1.30 **Management Concern:** yes **Community Structure Changing:** yes
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hackberry	5'-30'		Road	Foot traffic	Trash
Deciduous	Oak, pin	>30'		Restoration	Campfire/	
Lianas	Cottonwood, Eastern	5'-30'				
Level	Bittersweet	<5'	yes			
Moist	Honeysuckle, Japanese	<5'	yes			
	Multiflora rose	<5'	yes			

Comments:

Area including and around McDonald Ct., formerly a street, though now a semi-inundated desire line, running from the Surf Ave. path west to the gravel path. Area is a wet, scrubby woodland with aggressive encroachment of vines. Some restorative plantings on the path seem to have been unsuccessful, possibly due to trampling. Also evidence of high deer activity here. A hangout spot with driftwood benches and litter can be found at western end.

Unit: 167 **Date of Visit:** 12/19/2012 **Species Composition Changing:** yes
Acreage: 0.47 **Management Concern:** yes **Community Structure Changing:** no
Classification: IVA3a5

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'	yes			Erosion
Deciduous	Motherwort	<5'	yes			
Hemicryptophytes	Goldenrod, seaside	<5'				
Slope						
Dry/Moist						

Comments:

Meadow area ending with abrupt drop-off on seaside. Historically a mix of native ferns planted as part of restoration efforts, with invasive motherwort, this area was scoured by Hurricane Sandy.

Unit: 168 **Date of Visit:** 12/4/2012 **Species Composition Changing:** no
Acreage: 0.44 **Management Concern:** yes **Community Structure Changing:** no
Classification: VIIA1b2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Intertidal	Phragmites	5'-30'	yes			
Deciduous	Groundsel tree	<5'				
Hemicryptophytes						
Depression						
Surface water						

Comments:

Bowl-shaped depression in the midst of grass dunes, dominated by phragmites, with small stand of groundsel in the center.

Unit: 200 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.12 **Management Concern:** yes **Community Structure Changing:**
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Ailanthus	<5' & 5-30'	yes			
Deciduous	Bittersweet	<5' & 5-30'	yes			
Chamaephytes	Oak, red	5'-30'				
Level	Wineberry	<5'	yes			
Dry/Moist	Multiflora rose	<5'	yes			
	Spicebush	<5'				

Comments:

This unit is a canopy gap invaded by invasive plants growing on top of a thicket of dead multiflora rose and catbrier. Other species in the unit include: Joe-pie weed, white snakeroot, poison ivy, bitternut hickory, black locust, rubus spp., Japanese honeysuckle and moon-seed vine. The unit is a management concern because of the presence of invasive species.

Unit: 201 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.55 **Management Concern:** no **Community Structure Changing:**
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Sycamore, American	5'-30'				
Deciduous	Birch, river	5'-30'				
Phanerophytes	Ash, spp.	5'-30'				
Slope	Sweetgum	5'-30'				
Moist	Dogwood spp.	<5' & 5-30'				
	Willow, black	<5'				

Comments:

This unit is a DEC restoration planting area and is located on the edge of what appears to be a BMP. Many oyster shells were found in the unit (possibly from when the BMP was built and the soil was turned). Other species in the unit include: silver maple, hackberry, bitternut hickory, witchhazel, spicebush, dogwood, white snakeroot, sumac, cottonwood, wineberry, blackberry, garlic mustard, poison ivy, Virginia creeper, Oriental bittersweet, porcelainberry, catalpa, black locust, American elm, smart weed, aster spp., clearweed and Japanese honeysuckle.

Unit: 202 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.37 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red maple	>30'			Foot traffic	Dumping
Deciduous	Ash, green	>30'				Trash
Chamaephytes	Oak, red	>30'				
Level	Spicebush	<5'				
Dry						

Comments:

This unit is a seasonally wet area with a lot of down wood and trash especially bottles. The unit is a management concern because of the dumping and presence of household furniture, and desire lines. Other species in the unit include arrowwood, catbrier on the edges and some goldenrod, whitewood aster, poison ivy, black cherry saplings, sweetgum, grass spp, and beggarticks.

Unit: 203 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 4.41 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all		Road		
Deciduous	Sassafras	all				
Lianas	Sweetgum	all				
Level	Catbrier	<5'				
Dry	Spicebush	<5'				
	Hickory, bitternut	all				

Comments:

This is a red oak dominant closed forest unit with catbrier ubiquitous throughout the understory mixed with other vegetation. Other species present in the unit are: arrowwood, poison ivy, multiflora rose, Virginia creeper, dogwood, holly, Japanese honeysuckle, wineberry, black berry, cinnamon fern, aralia, cottonwood, clearweed, grape spp., American elm, white poplar, black cherry, white oak, pin oak, red maple, black gum, hackberry and ailanthus.

Unit: 204 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.42 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all		Road		Trash
Deciduous	Red maple	all				
Chamaephytes	Hickory, bitternut	all				
Level	Dogwood spp.	<5'				
Dry	Spicebush	<5'				
	Catbrier	<5'				

Comments:

This unit is a red oak, red maple closed forest with catbrier present throughout the unit in the understory. It is a management concern because of the presence of invasives and the fact that is located adjacent to a big canopy gap and a seasonally wet open area. Other species in the unit include; slippery elm, ash, white mulberry, Japanese honeysuckle, poison ivy, Oriental bittersweet, cottonwood, arrowwood, wineberry, Virginia creeper, giant grape, multiflora rose and white snakeroot.

Unit: 205 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 1.52 **Management Concern:** no **Community Structure Changing:**
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all				Trash
Deciduous	Red maple	all				
Phanerophytes	Spicebush	<5'				
Level	Arrowwood	<5'				
Dry	ivy, poison	<5'				
	Catbrier	<5'				

Comments:

This unit is similar to the red oak, red maple close forest (unit 115) but is separated by unit 113 (a seasonally wet closed forest with little understory). On the eastern side of the unit is the narrow disturbed edge unit 112 that is next to the paved path. It is a management concern because of trash and the possible invasion of invasive species from the more disturbed neighbor unit. Other species in the unit include: sassafras, Virginia creeper, bitternut hickory, slippery elm, Japanese honeysuckle.

Unit: 206 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.34 **Management Concern:** **Community Structure Changing:**
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	>30' & 5-				Trash
Deciduous	Arrowwood	<5'				
Phanerophytes	ivy, poison	<5'				
Level	Catbrier	<5'				
Dry						

Comments:

this unit is a seasonally wet are with very little understory. There is some catbrier on the edges and poison ivy growing on trees. Other species in the unit include: grass spp., Virginia creeper, black berry and some red maples. The unit is a management concern because of all the dumping. There are washing machine parts, car tires, a stove and some mattress springs present in the area.

Unit: 207 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.61 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Hickory, bitternut	all		Road		Trash
Deciduous	Ash, green	all				
Phanerophytes	elm, American	all				
Level	spp					
Dry						

Comments:

This unit is a closed forest with a lot of dead hanging vines and a couple of old rusted cars. Other species in the unit include: English ivy, rubus spp., white snakeroot, multiflora rose, Japanese honeysuckle, white mulberry, grape spp., hackberry, spicebush, euonymus spp., and Oriental bittersweet.

Unit: 208 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.34 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelainberry	5'-30'	yes			
Deciduous	Sumac spp.	5'-30'				
Lianas	Bittersweet	5'-30'	yes			
Undulating	Sassafras	<5' & 5-30'				
Dry						

Comments:

This unit is a canopy gap area with vines growing on top of trees. There is some down wood present in the unit and some shells on the ground. Other species in the unit include: black cherry, Japanese honeysuckle, wineberry, boneset, hickory spp., mile a minute, goldenrod, silver maple and ailanthus. The unit is a management concern because of the invasive species especially the presence of mile a minute.

Unit: 209 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.40 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Poplar, white	>30' & 5-				Vandalism
Deciduous	Oak, pin	>30' & 5-				
Lianas	Sassafras	5'-30'				
	Hickory, bitternut	5'-30'				
	Catbrier	<5'				
	Honeysuckle, vine	<5'				

Comments:

This is a small area between the canopy opening area next to the trails and the big red oak closed forest unit. It is a management concern because of invasive species and a hole that appears to be an archeological excavation site. Other species in the unit include; red oak, mulberry, spice bush, grape spp., red maple, black cherry, Virginia creeper, arrowwood, poison ivy, and paulownia.

Unit: 210 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.14 **Management Concern:** yes **Community Structure Changing:**
Classification: VIIIA

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Paulownia	<5'	yes	Road		
Deciduous	Cherry, black	<5'				
Lianas	Spicebush	<5'				
Level	porcelainberry	<5'	yes			
Dry	Catbrier	<5'				
	honeysuckle, vine	<5'	yes			

Comments:

This unit is a canopy gap within the red oak, sassafras closed forest (unit203). There is a lot of down trees with vines growing on top. Paulownia is taking advantage of the open area and invading. Other species in the unit include: arrowwood, sassafras and wine berry.

Unit: 211 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.58 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a3

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, red	>30' & 5-				
Deciduous	elm, slippery	>30' & 5-				
Hemicryptophytes	Red maple	5'-30'				
Level	Mugwort	<5'	yes			
Dry	Dogwood spp.	<5'				
	Hackberry	<5'				

Comments:

This is an edge unit next to the paved trail with some B+B plantings and mugwort understory throughout. Other species in the unit include: Osage orange. The unit is a management concern because of the presence of invasives.

Unit: 212 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 1.33 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Paulownia	5'-30'	yes			
Deciduous	Mugwort	<5'	yes			
Lianas	Box Elder	5'-30'				
Level	Bittersweet	<5'	yes			
Dry/Moist	Porcelainberry	<5'	yes			
	Bindweed, hedge	<5'	yes			

Comments:

This unit is located on the corner of two paved trails. It is very patchy and a management concern because of all the invasive species present. Other species in the unit include: goldenrod, aster spp., agastache, ash spp., hackberry, cottonwood, pokeweed, horseweed, wineberry, Virginia creeper, Japanese honeysuckle, black cherry, white snakeroot, multiflora rose and Asiatic dayflower.

Unit: 213 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.26 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a3

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Silver maple	5'-30'				
Deciduous	Red maple	5'-30'				
Hemicryptophytes	Oak, red	5'-30'				
Level	Dayflower, Asiatic	<5'	yes			
Dry/Moist	Boneset	<5'				
	Beggar ticks	<5'				

Comments:

this is an edge unit with probably planted B=B trees. It is a management concern because of the presence of invasives. Other species present in the unit include: Japanese knotweed, multiflora rose, mugwort, bitternut hickory and goldenrod.

Unit: 214 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.58 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, red	5'-30'				
Deciduous	Cottonwood, Eastern	5'-30'				
Lianas	Sycamore, common	5'-30'				
Level	Locust, black	5'-30'				
Dry/Moist	porcelainberry	<5'	yes			
	Mugwort	<5'	yes			

Comments:

very diverse edge unit with patches of everything. Other species in the unit include: silver maple, phragmites, goldenrod, Japanese honeysuckle, slippery elm, ash, multiflora rose, mulberry, bill thistle, baccharis, motherwort, Japanese knotweed, aianthus, sassafras, black cherry and pokeweed.

Unit: 215 **Date of Visit:** 9/9/2014 **Species Composition Changing:**
Acreage: 0.39 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Silver maple	5'-30'				
Deciduous	Birch, black	5'-30'				
Lianas	Sycamore, common	5'-30'				
Level	Willow spp.	5'-30'				
Dry/Moist						

Comments:

This unit is still the B+B plantings (same as unit 2014) but the canopy is closed and there is no mugwort understory. Other species in the unit include: swamp white oak, porcelainberry, multiflora rose, boneset, Japanese honey suckle, goldenrod, mulberry, sweet gum, catalpa, Virginia creeper and baccharis. Very little mugwort id present.

Unit: 216 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 1.03 **Management Concern:** no **Community Structure Changing:**
Classification: VIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Aquatic (fresh)	Arrow arum	<5'				
Deciduous	Buttonbush	<5'				
Hydrophytes	Smartweed	<5'	yes			
Level	Duckweed	<5'				
Wet						

Comments:

This unit is a DEP, BMP Blue belt. Other species in the unit including: pokeweed, Asiatic dayflower, purple loosestrife and elderberry.

Unit: 217 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.08 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	5'-30'			Foot traffic	Trash
Deciduous	Tulip tree	5'-30'				
Phanerophytes	Sycamore, common	5'-30'				
Level	Mulberry spp.	5'-30'				
Dry/Moist	elm spp.	5'-30'				
	Catalpa	5'-30'				

Comments:

This unit is located on the north east side of the BMP. It contains DEP B+B plantings with some invasives in the understory. Other species in the unit include: callery pear, hackberry, red maple, silver maple, poison ivy, willow, grape, goldenrod, wineberry, dogwood, mugwort, red oak, Virginia creeper, arrowwood, white snakeroot, spicebush, Oriental bittersweet, black locust, bitternut hickory and black cherry sapling, sweetgum, aster spp., ailanthus, moonseed, Japanese knotweed and serviceberry.

Unit: 218 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.51 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Birch, paper	<5' & 5-30'				
Deciduous	Sycamore, common	<5' & 5-30'				
Lianas	Willow, black	<5' & 5-30'				
Level	Sweetgum	<5' & 5-30'				
Dry/Moist	Mulberry spp.	<5' & 5-30'	yes			
	Snakeroot, white	<5'				

Comments:

This unit is a narrow edge of closed forest with planted B+Bs along the north eastern part of the BMP. There are some fragmented patches on the woodland edge. There are some vines creeping in some parts on the woodland edge and in open areas. Other species include Japanese knotweed, porcelainberry, Phragmites, blackgum, sweetgum, locust, spicebush, hickory, swamp white oak, dogwood, Oriental bittersweet, clearweed, porcelainberry, sycamore, red maple, grape, Virginia creeper, Poison ivy, aster spp., alder tree, witchhazel,

wineberry, tulip tree and hackberry.

Unit: 219 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.29 **Management Concern:** **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Catbrier	<5'				
Deciduous	Grass spp.	<5'				
Lianas	Bittersweet	<5'	yes			
Level	Hickory spp.	all				
Dry/Moist	Sassafras	all				
	Sweetgum	all				

Comments:

This unit is a big vegetation gap, covered with a thicket of catbrier vine. The unit is surrounded by old bitternut hickory, sweetgum and sassafras trees. Other species in the unit include: wineberry, sumac, spicebush, ailanthus, ash, blackberry, Japanese honeysuckle, poison ivy, red oak seedling, arrowwood, multiflora rose, Japanese knotweed, mock orange and slippery elm trees.

Unit: 220 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.09 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a3

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	5'-30'				
Deciduous	Locust, black	5'-30'				
Hemicryptophytes	Alder, black	5'-30'				
Level	birch, paper	5'-30'				
Dry/Moist	Aster, spp.	<5'				
	Solidago, spp.	<5'				

Comments:

This unit is located between Billop Ave. and the paved trail that goes to the BMP water. The unit is a management concern because of the invasives present. There is lots of mugwort on the edges of this unit. Other species in the unit include: bindweed, Oriental bittersweet, alder, multiflora rose, clearweed, ash, wineberry, prickly lettuce, Japanese honeysuckle, white snakeroot, sumac, porcelainberry, goldenrod, jewelweed, mulberry, cottonwood, black locust, whitewood aster, bitternut hickory, arrowwood, witchhazel, dogwood spp., hemlock, phragmites, mugwort, autumn olive, baccharis, silver maple, paper birch, sweetgum,

red oak and heart-leaved aster.

Unit: 221 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.04 **Management Concern:** no **Community Structure Changing:**
Classification: V

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Grass spp.	<5'				
Deciduous						
Hemicryptophytes						
Level						
Moist						

Comments:

this unit is a porous paved path that goes to the BMP water from Billop Ave. Other species present are: warm season grass, clover and porcelainberry.

Unit: 222 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.58 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, red	all				
Deciduous	Sassafras	<5'				
Lianas	Bittersweet	<5'	yes			
Level	Grape, wild	<5'				
Dry	Multiflora rose	<5'	yes			
	Cottonwood, Eastern	<5'	e			

Comments:

Disturbed open woodland edge unit along the edge of the trail. Some planting in this area. The unit is a management concern to make sure the plantings survive and because of the dumping and trash, mostly bottles. Other species in the unit include: Japanese barberry, porcelainberry, dogwood, autumn olive, sumac spp., white snakeroot, mugwort, aster spp., mulberry, black locust, catalpa, pin oak, catbrier, goldenrod, arrowwood, paper birch, red maple, beach, Virginia creeper, poison ivy, spicebush, moonseed vine, Japanese honeysuckle, hackberry, black cherry, American elm, giant ragweed, bull thistle and wisteria.

Unit: 223 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.33 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	5'-30'				
Deciduous	Oak, pin	<5' & >30'				
Phanerophytes	Poplar, white	<5' & >30'				
Level	Smartweed	<5'				
Dry						

Comments:

this unit is a seasonally wet area adjacent to an open vineland. It is full of tires and other dumping. Other species present: poison ivy, cat brier and stilt grass.

Unit: 224 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.31 **Management Concern:** yes **Community Structure Changing:**
Classification: VIIIA

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Catbrier	<5'				
Deciduous	Poplar, white	5'-30'				
Lianas	Bittersweet	<5'	yes			
Level	Sassafras	5'-30'				
Dry	Knotweed, Japanese	<5'	yes			
	Multiflora rose	<5'	yes			

Comments:

small vineland in the bigger red oak, sassafras, red maple closed forest. Other species in the unit include: sweet gum saplings, elm, paulownia, raspberry, boneset, pin oak, poison ivy, English ivy, grape spp., blackgum, and catalpa.

Unit: 225 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.79 **Management Concern:** yes **Community Structure Changing:**
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Cottonwood, Eastern	5'-30'				
Deciduous	Pear, callery	<5'				
Hemicryptophytes	Locust, black	<5'				
Level	Grass spp.	<5'				
Dry/Moist	Rubus					
	Mugwort					

Comments:

This meadow unit borders the playground. It also includes a Spring 2009 Million Trees NYC planting site, which most of the trees are missing or very small. The meadow with the mixed grass and rush spp. Look healthy. Other species in the unit include: poison ivy, path rush, goldenrod, vetch, helianthus, Chinese silver grass. Japanese honeysuckle, red oak, pea spp., black walnut, swamp white oak, milkweed, raspberry and juniper. The unit is a management concern because of the presence of invasive species and the survival of the remaining MTNYC trees.

Unit: 226 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.13 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a3

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	<5' & 5-30'			Foot traffic	Dumping
Deciduous	Poplar, white	<5' & 5-30'				
Hemicryptophytes	Sassafras	<5' & 5-30'				
Level	Bittersweet	<5'	yes			
Dry	Grass, Chinese Silver	<5'	yes			

Comments:

the are includes a shallow ditch with some household dumping. Other species in the unit include: Cottonwood, solidago spp., bitternut hickory, Japanese honeysuckle, rubus spp., pin oak, poison ivy, wineberry, dogbane, slippery elm, sweetgum, grass spp., stilt grass, black cherry, dogwood, multiflora rose and porcelainberry.

Unit: 227 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.51 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Locust, black	>30' & 5-		Road	Foot traffic	Dumping
Deciduous	Oak, red	>30' & 5-				Trash
Lianas	Catbrier	<5'				Auto
Level	Multiflora rose	<5'	yes			
Dry	Red maple	5'-30'				
	Bittersweet	<5'	yes			

Comments:

This unit contains a hangout area with a full dining set, rugs and other furniture, there is a lot of trash in this unit especially bottles and cans. There are also parts of old roads or sidewalks uncovered as well. There are 2 whole old burnt cars that are covered in multiflora rose and catbrier. The rest of the understory is also covered in catbrier and multiflora rose. Other species in the unit include: raspberry, arrowwood, hackberry, phragmites, Virginia creeper, poison ivy, Japanese honeysuckle, and aster spp.

Unit: 228 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 4.19 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all		Road	Foot traffic	Dumping
Deciduous	Sassafras	all				Trash
Lianas	Red maple	all				Auto
Undulating	Sweetgum	all				
Dry/Moist	Catbrier	<5'				
	Multiflora rose	<5'	yes			

Comments:

This unit is a closed forest of red oak and sassafras with an understory of multiflora rose and catbrier. There are several desire lines in the unit that end up in the hangout area of unit 227. There are a lot of car parts and trash throughout the unit. Other species in this unit include: Oriental bittersweet, chestnut oak, wild sarsaparilla, pin oak, blackgum, poison ivy, dogwood, swamp white oak, arrowwood, white ash, grass spp., blackhaw viburnum, aster spp., black locust, ailanthus spicebush, Japanese knotweed, bittersweet night shade,

Virginia creeper, Norway maple and Japanese honeysuckle.

Unit: 229 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.52 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cottonwood, Eastern	>30'			Foot traffic	Auto
Deciduous	Sassafras	all				
Lianas	Oak, red	all				
Undulating	Catbrier	<5'				
Dry/Moist	Multiflora rose	<5'	yes			
	Fern, cinnamon	<5'				

Comments:

This unit is mainly dominated by cottonwoods, and is connected to the meadow unit. There are desire lines and up to 4 whole cars that were either burnt or dumped and are covered with vines now. Other species in the unit include: solidago, arrowwood, bitternut hickory, poison ivy, sweetgum, black locust, spicebush, paulownia and Japanese honeysuckle.

Unit: 230 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.15 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a2

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Oak, pin	>30' & 5-		Road		Dumping
Deciduous	Cottonwood, Eastern	>30' & 5-				Auto
Chamaephytes	Sweetgum	>30' & 5-				
Level	Multiflora rose	<5'	yes			
Dry	Dogwood, redbud	<5'				
	blackhaw viburnum	<5'				

Comments:

This unit is an old narrow road that still has jersey barriers on the Clermont Ave. side of it. The road is covered with dirt and rose on top. Other species in the unit included: catbrier, Japanese honeysuckle, bitternut hickory, poison ivy, stilt grass, slippery elm, hardy orange, mint, hawthorn, and swamp white oak.

Unit: 231 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 2.19 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Hickory, bitternut	all		Road		Dumping
Deciduous	Oak, red	all				Auto
Lianas	Sassafras	<5' & 5-30'				Trash
Undulating	Catbrier	<5'				
Dry	Sweetgum	<5' & 5-30'				
	Multiflora rose	<5'	yes			

Comments:

This unit is an oak, hickory, sassafras closed forest with a disturbed and patchy understory. Other than being a management concern because of the invasive species it is a concern because of all the dumping, there are many piles of old tires and 6 full cars were found in the unit. There are also piles of carpet in the unit. Other species present include: Japanese arrow bamboo, paulownia, ash, grape, poison ivy, geranium, Japanese honeysuckle, dogwood, stilt grass, Norway maple, Japanese knotweed, bush honeysuckle, periwinkle, spicebush, elm, hawthorn, hackberry and viburnum prunifolium.

Unit: 232 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.07 **Management Concern:** yes **Community Structure Changing:**
Classification: VIIIA

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Poplar, white	all				
Deciduous	Porcelain berry	<5' & 5-30'	yes			
Lianas	Rubus	<5'				
Level	Knotweed, Japanese	<5'	yes			
Dry	Bittersweet	<5'	yes			
	Grass spp.	<5'				

Comments:

This unit is on the edge of the road and is an open canopy gap area with some dyeing poplars surrounding a vineland. It is a management concern because of the vegetation and also some horticultural dumping possible from the houses across the street.

Unit: 233 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.18 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Poplar, white	all			Foot traffic	Dumping
Deciduous	elm spp.	all				
Lianas	Sassafras	all				
Level	Catbrier	<5'				
Dry	Pear, Callery	<5'				
	ivy, poison	<5'				

Comments:

This unit is an edgy forest unit that has some desire lines going through it. Other species present include: multiflora rose, arrowwood, and sweet gum.

Unit: 234 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 1.42 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Sassafras	all				Dumping
Deciduous	Oak, red	all				Auto
Lianas	Cherry, black	all				
Level	Grape, fox	<5'				
Dry/Moist	Catbrier	<5'				
	Cottonwood, Eastern	>30'				

Comments:

This unit is a mixed closed forest that is adjacent to the playground and woodland. It has a disturbed viney understory. There are auto parts and lots of old tires in the unit and some old concrete chunks on a berm. Other species present in the unit include: clearweed, lily of the valley, phragmites, rose of sharon, mugwort, black locust, wild sarsparilla, poison ivy, bittersweet, multiflora rose, English ivy, dogwood and hickory samplings, stilt grass, mulberry, Japanese honeysuckle, viburnum prunifolium, Japanese knotweed, porcelainberry, hackberry, red maple and boneset.

Unit: 235 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.84 **Management Concern:** **Community Structure Changing:**
Classification: VD

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Oak spp.	>30'				
Deciduous	Grass spp.	<5'				
Hemicryptophytes						
Level						
Dry						

Comments:

This unit is the Lenape playground that was just reopened after being closed due to Hurricane Sandy damage.

Unit: 236 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 4.15 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all		Foundation		Trash
Deciduous	Locust, black	all				
Lianas	Multiflora rose	<5'	yes			
Level	Bittersweet	<5' & 5-30'	yes			
Dry/Moist						

Comments:

This unit is located between the trail and the smaller path that go to the beach. Multiflora rose throughout the understory, and some mugwort on the edges. There are parts of concrete slabs that look like old building foundation in the northern part of the unit. There is marine debris and trash present in the southern part of the unit. Other species include: Japanese honeysuckle, ailanthus and cottonwood.

Unit: 237 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 0.28 **Management Concern:** yes **Community Structure Changing:**
Classification: IIIA1

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Phragmites	<5'	yes			Trash
Deciduous	Mugwort	<5'	yes			
Hemicryptophytes						
Level						

Comments:

This unit has a lot of trash and floatable marine debris.

Unit: 238 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 3.31 **Management Concern:** yes **Community Structure Changing:**
Classification: IB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, red	all				
Deciduous	Hickory spp.	all				
Lianas	Locust, black					
Level	Mugwort	<5'	yes			
	Bittersweet	<5'	yes			

Comments:

This unit is very similar to the adjacent unit 239 but the invasive species in the understory it have not been treated and there are more hickories in the unit.

Unit: 239 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 3.53 **Management Concern:** yes **Community Structure Changing:**
Classification: IIB2a6

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Locust, black	all				
Deciduous	Oak, red	all				
Lianas	Ailanthus	all	yes			
	Mugwort	<5'	yes			
	mile a minute	<5'	yes			
	Bittersweet	<5'	yes			

Comments:

This unit is currently being managed and the understory was recently sprayed to get prepared for Fall 2015 planting. Other species in the unit include: Catalpa, grass spp. Bindweed, porcelain berry, multiflora rose, Japanese knot weed and aster spp. Most of the mugwort and mile a minute are dead and the black locust is damaged.

Unit: 240 **Date of Visit:** 9/11/2014 **Species Composition Changing:**
Acreage: 3.19 **Management Concern:** yes **Community Structure Changing:**
Classification: VC1a

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scarcely Vegetated	Callery pear	<5' & >30'				
Deciduous	Mugwort	<5'	yes			
Hemicryptophytes	Phragmites	<5'	yes			
Level	Grass spp.					

Comments:

This unit includes the sand berm that was build after hurricane Sandy. There are some grass species growing on the berm and some wetland grasses exist on the water edge. Other species include bindweed, spartina and sumac spp.