Natural Area Mapping and Inventory of Inwood Hill Park 1989 Survey

Prepared by the Natural Resources Group
Michael R. Bloomberg, Mayor
Adrian Benepe, Commissioner

Inwood Hill Park Natural Area Mapping & Inventory

Surveyed March 1989
196.4 acres

Introduction

City of New York Parks & Recreation (DPR) manages one of the most extensive and varied park 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, the Parks Department 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 NRG's jurisdiction provide valuable habitat for hundreds of species, from rare wildflowers to endangered birds of prey. In addition to the goals mentioned above, NRG serves as a clearinghouse for technical research to aid in the protection and restoration of the city's natural resources. This inventory of Inwood Hill Park was conducted in 1989 as part of NRG's commitment to improving the natural areas of New York City parks.

Inwood Hill Park contains the last natural forest and salt marsh in Manhattan. It is unclear how the park received its present name. Before becoming parkland in 1916, it was known during the Colonial and post-Revolutionary War period as Cock or Cox Hill. The name could be a variant of the Native American name for the area, Shorakapok, meaning either "the wading place," "the edge of the river," or "the place between the ridges."

Human activity has been present in Inwood Hill Park from prehistoric times. Through the 17th century, Native Americans known as the Lenape (Delawares) inhabited the area. There is evidence of a main encampment along the eastern edge of the park. The Lenape relied on both the Hudson and Harlem Rivers as sources for food. Artifacts and the remains of old campfires were found in Inwood's rock shelters, suggesting their use for shelter and temporary living quarters.

In the 17th and 18th centuries, colonists from Europe settled and farmed here. During the Revolutionary War, American forces built a five-sided earthwork fort (known as Fort Cock or Fort Cox) in the northwestern corner of the park. It fell to British and Hessian troops in November 1776 and was held until the war ended in 1783. After the Revolutionary War, families returned to the area to resume farming.

In the 1800s much of present-day Inwood Hill Park contained country homes and philanthropic institutions. There was a charity house for women, and a free public library (later the Dyckman Institute) was formed. The Straus family (who owned Macy's) enjoyed a country estate in Inwood; its foundation is still present. Isidor and Ida Straus lost their lives on the S.S. Titanic's maiden voyage. When the Department of Parks bought land for the park in 1916, the salt marsh was saved and landscaped; a portion of the marsh was later landfilled. The buildings on the property were demolished. During the Depression the City employed WPA workers to build many of the roads and trails of Inwood Hill Park.

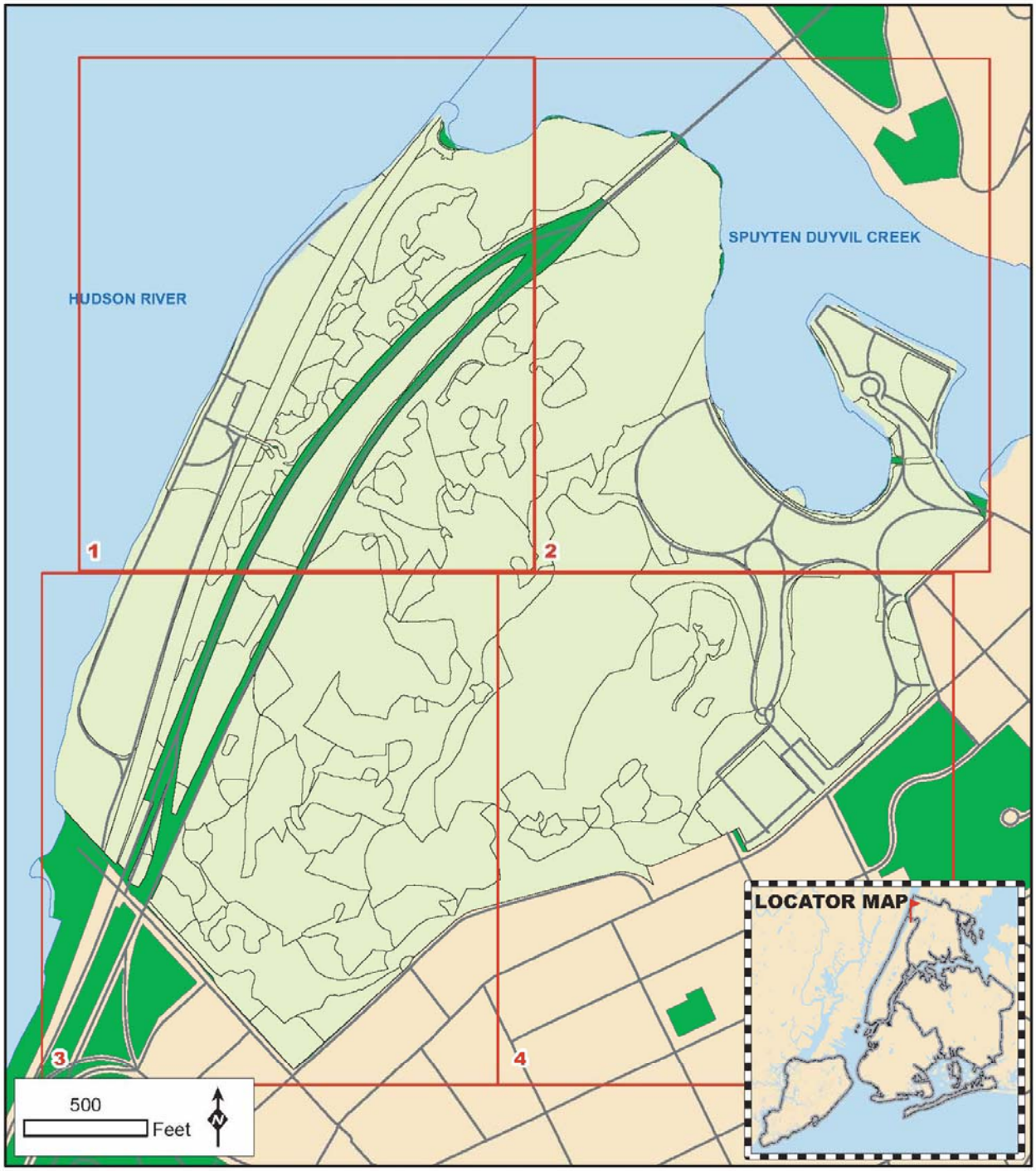
To facilitate the protection, management and restoration of Inwood Hill Park, NRG completed an inventory of the area using entitation, a process of identifying and describing ecologically distinct plant communities. Using aerial photographs and field reconnaissance, Parks staff delineated distinct ecological entities, known

as entitation units, based on cover type, understory structure, species composition, and topography. Evidence of historical use, current use, environmental disturbance, and additional notes were also recorded for each unit. Entitation of Inwood Hill Park resulted in a map and database that can be used to locate valuable and threatened areas. They also serve as a baseline for measuring change over time.

Entitation

Entitation is a type of plant community inventory well suited to the patchy environments often found in urban areas. Originally designed for European landscapes, the system was revised by NRG in 1985 for use in urban parkland. NRG has used entitation widely and successfully to facilitate acquisition and restoration decisions. Put simply, entitation is a process of breaking up a park into manageable parts called “entities” or “entitation units.” Entitation units are defined using a weighted list of criteria. The first level of distinction is based on cover type (e.g. closed forest, vineland, scrub), followed by canopy species composition, understory type (e.g. herbs, vines, shrubs), and understory species composition. Additional factors, such as topography and
soil condition (e.g. wet, moist, dry) are also taken into account.

To prepare for fieldwork, mapping technicians examine aerial photographs and delineate areas of similar cover. The mapping staff use the aerial information to create a strategy for covering land area. In the field, boundaries are identified as described above. For each unit, staff record the data listed above, as well as current uses, environmental disturbances, historical indicators, community stability, and comments.



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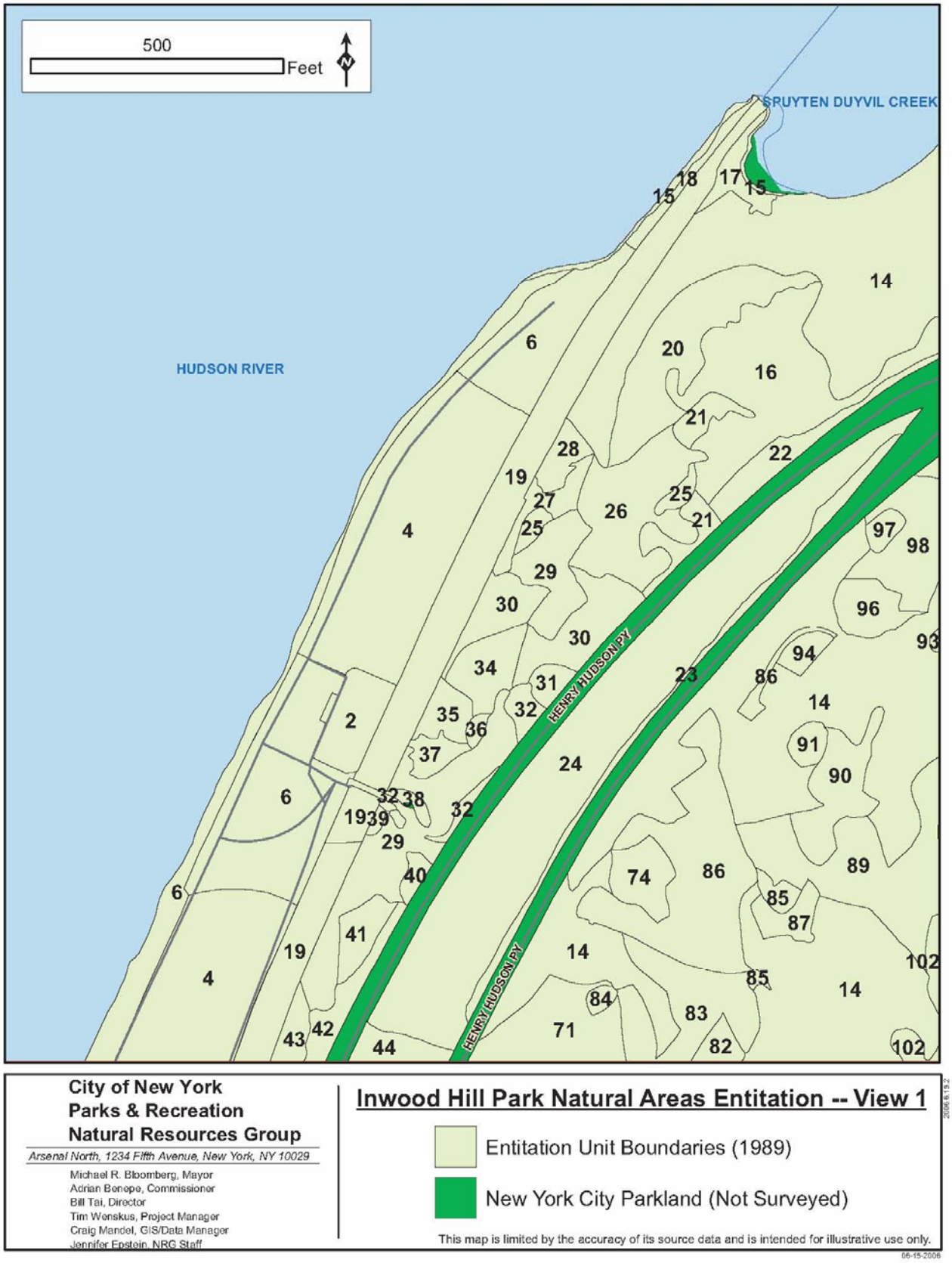
Inwood Hill Park Natural Areas Entitation

Entitation Unit Boundaries (1989)

New York City Parkland (Not Surveyed)

This map is limited by the accuracy of its source data and is intended for illustrative use only.

06-15-2006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SPUYTEN DUYVIL CREEK
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Inwood Hill Park Natural Areas Entitation -- View 1
Entitation Unit Boundaries (1989)
New York City Parkland (Not Surveyed)
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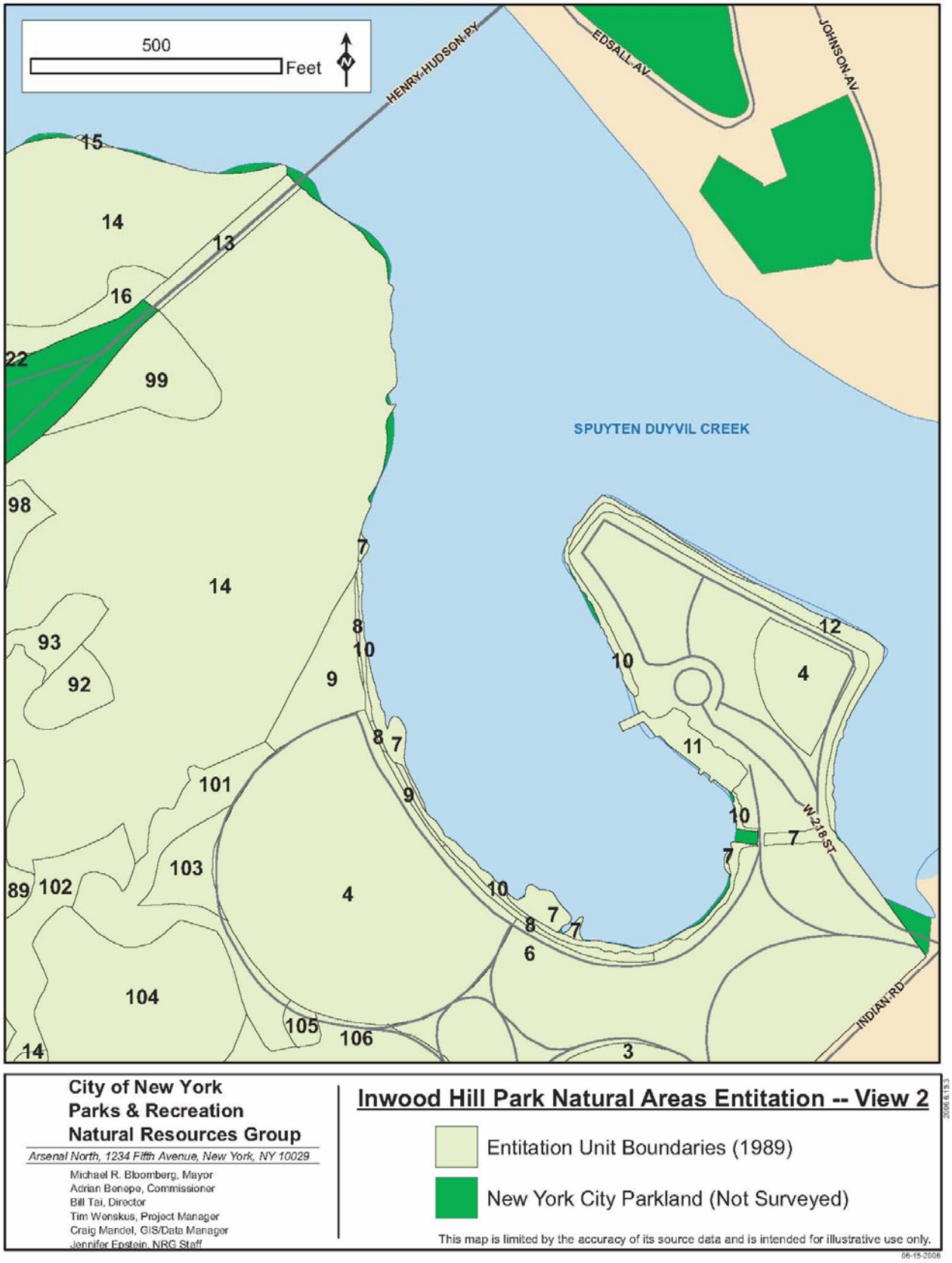
06-15-2006



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Inwood Hill Park Natural Areas Entitation -- View 2

Entitation Unit Boundaries (1989)

New York City Parkland (Not Surveyed)

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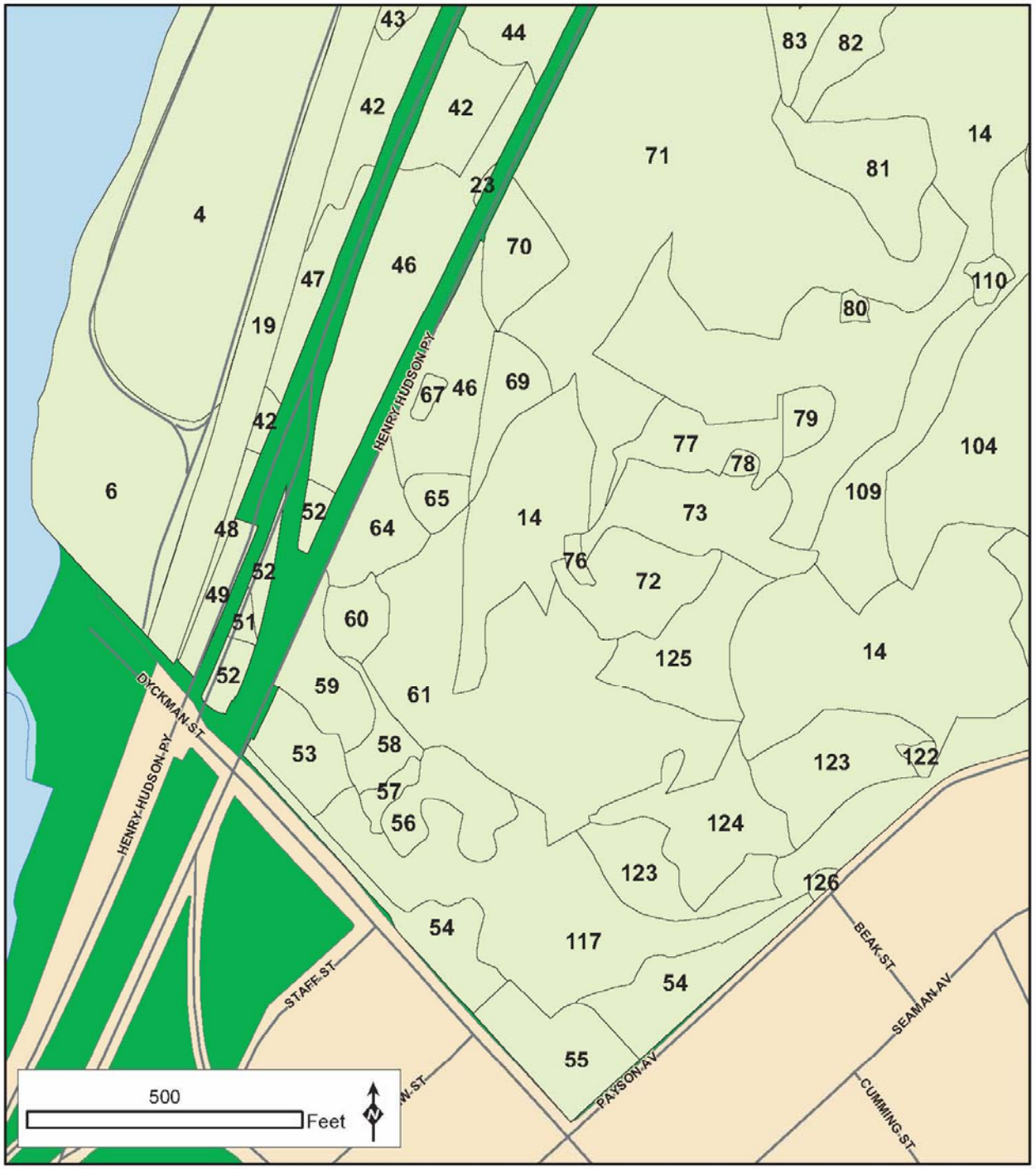
06-15-2006



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Inwood Hill Park Natural Areas Entitation -- View 3

Entitation Unit Boundaries (1989)

New York City Parkland (Not Surveyed)

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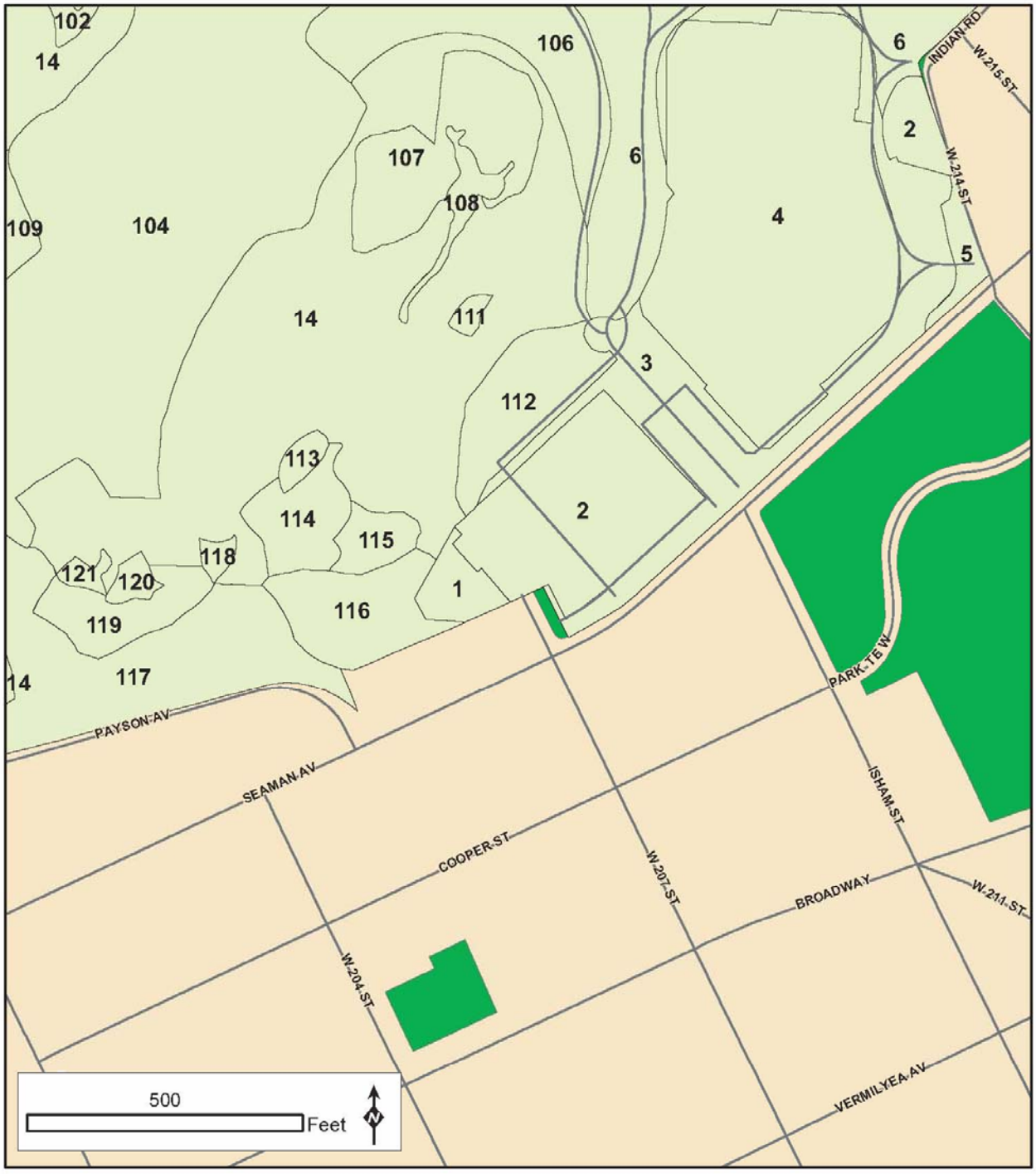
06-15-2006



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Inwood Hill Park Natural Areas Entitation -- View 4

Entitation Unit Boundaries (1989)

New York City Parkland (Not Surveyed)

This map is limited by the accuracy of its source data and is intended for illustrative use only.

06-15-2006

Unit: 1
Acreage 0.31
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'			Foot traffic	Trash
	Common burdock	<5'	Yes			
Hemicryptophytes	Common plantain	<5'	Yes			
Level	Clover	<5'	Yes			
Dry/Moist						

Comments

Small meadow used primarily for dog walk area and foot passage from Seaman Ave. to path behind recreation area. MC: Maintain as a meadow. Other spp.: smartweed and great ragweed. 10/2/87- Sighting of many dragonflies (several spp.) possibly because of standing water in a ditch at base of slope.

Unit: 2
Acreage 2.98
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert				Exotics	Playground	Compaction
				Full-crown		Vandalism
Hemicryptophytes						Trash
Level						
Dry						

Comments

Tennis, basketball, handball and shuffleboard courts and playgrounds at Indian Rd. and Seaman Ave. Small surrounding lawn with exotic plantings of black locust, sweetgum and Norway maple. All court and playground areas are paved and surrounded by chainlink fence. Unit also includes roller skating rink on western edge of park (rink has been neglected).

Unit: 3
Acreage 2.76
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Sweetgum	>30'			Foot traffic	Trash
Deciduous	Pin oak	>30'				Compaction
Hemicryptophytes	Ailanthus	<5' & 5-30'	Yes			
Level						
Dry/Moist						

Comments

Landscaped areas in more than one location including grass areas, mugwort, plantain, sweetgum, Ailanthus, pin oak, and other planted species. Unit includes a Parks maintenance building/comfort station, a veteran's memorial flagpole, and a small fenced- in-garden (Margaret's garden).

Unit: 4
Acreage 20.40
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'		Landfill	Sports	Trash
					Foot traffic	Compaction
Hemicryptophytes						
Level						
Dry/Moist						

Comments

Ballfields: (5) enclosed by chainlink fence with two large concrete bleachers (art deco), (1) privately maintained little league field enclosed by chainlink fence, pile of clay in right field, benches in disrepair at northeast corner. (4) ballfields on western portion of park, (2) soccer fields. Other spp.: dandelion, clover, common plantain, pineapple weed, English plantain, and mugwort.

Unit: 5
Acreage 0.28
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	All	Yes	Exotics	Foot traffic	Erosion
Deciduous	Mulberry	All	Yes	Fence	Toilet	Compaction
Phanerophytes	American hackberry	All				Trash
Slope						
Dry/Moist						

Comments

Overgrown, formally cared for area along perimeter of park at Seaman and 214th. MC: Has potential for expanding (stop mowing edge, thin). Looks like beautiful rat habitat. Much tree regeneration. Other spp.: poison ivy, garlic mustard, Norway maple, red maple, Virginia creeper, lamb's quarters, bittersweet, Mexican tea.

Unit: 6
Acreage 17.68
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	London planetree	>30'	Yes	Landfill	Foot traffic	Compaction
Deciduous	Hawthorn	5'-30'		Full-crown	Picnic	Trash
Phanerophytes	Pin oak	>30'		Exotics	Sunbathing	
Undulating	Cool season grass	<5'				
Dry/Moist						

Comments

Managed lawn area with many mature trees, asphalt pathways, CSG covers much of the understory. Potential erosion problem areas in compacted soil locations. Other spp.: black locust, American basswood, white, black, red and water oaks, Norway, red and sycamore maples, American elm, black willow. Root exposure at tree bases.

Unit: 7
Acreage 0.43
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Intertidal	Salt water cordgr	<5'			Foot traffic	Trash
	Salt reed grass	5'-30'				

Level
Wet

Comments

Small unit of Spartina (expanding, according to aerial photos) excellent for support of wildlife (waterfowl). Well defined foot path with trash along perimeter. Appears quite vigorus, with ability to spread. Border of marsh elder and goldenrod also serves and supports woodland bird community. MC: manage invasive community (mugwort, morning glory, curly dock, Ailanthus) to insure a "true" marsh community.

Unit: 8
Acreage 0.12
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Trash
	Curly dock	<5'	Yes			

Hemicryptophytes
Level
Dry

Comments

Exotic border of marsh contained between the fence, path and the tide line. Blocks view of marsh as seen from benches. Wacked down at least once annually. Management Concern: Do not want exotic border. Other spp.: rose, garlic mustard, morning glory, Ailanthus, hawthorn, mulberry, black cherry.

Unit: 9
Acreage 0.06
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Scrub	Marsh elder	5'-30'		Landfill	Foot traffic	Trash
Deciduous	Goldenrod	<5'				Flotsam
Chamaephytes						
Level						
Moist						

Comments

MC: In association with unit 7, this community serves as a border between invasive herbaceous plants (mugwort, curly dock, bindweed and cordgrass.) It is not a continuous strip but is interrupted by the herbaceous plants. The marsh elder / goldenrod .community appears vigorous, supports some insect population (ladybug/ beetle) and is successfully growing among riprap. At western edge of lagoon, this community is closest to woodlands. Should be managed for as probable wildlife concern. Other spp.: mugwort and cordgrass.

Unit: 10
Acreage 0.50
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Intertidal				Landfill	Sports	Trash
					Foot traffic	
Slope						
Surface water						

Comments

Riprap shoreline. Management concern: Wetland restoration site.

Unit: 11
Acreage 0.33
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert				Canoe house	Boat house	Compaction
					Foot traffic	Vandalism
Hemicryptophytes					Vehicle access	Trash
Level						
Dry						

Comments

Structure used as maintenance shed, area adjacent to building used for vehicle access, parking etc. Little vegetation in area: some cool season grass, mugwort and clover. A boat launch juts into water. Future plans for building include changing use to nature center (MC).

Unit: 12
Acreage 0.45
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Black locust	All	Yes	Landfill	Foot traffic	Trash
Deciduous	London planetree	>30'	Yes			
Phanerophytes	Box Elder	<5' & 5-30'				
Slope	Mulberry spp.	5'-30'	Yes			
Moist	Mugwort	<5'	Yes			

Comments

Shoreline woodland unit with exotic plant species. Mugwort dominates groundcover with curly dock and cool season grass. Black locust along eastern shoreline. London planetrees planted along northern shoreline. Other spp.: hawthorn, pin oak, Ailanthus, black cherry, American elm (<5'), Virginia creeper, and bittersweet. MC: Abundance of non-native plant species.

Unit: 13
Acreage 0.34
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Red oak	All			Foot traffic	Erosion
Deciduous	Black cherry	All				Compaction
Hemicryptophytes	Sassafras	All				Dumping
Slope	Red maple	All				
Dry/Moist	Poison ivy	<5'				

Comments

Section under bridge (325'x200') from parking lot fence (and offices) north towards water edge. Disturbed unit includes many plant species and interrupts red oak unit 14. Other spp.: mugwort, garlic mustard, Japanese honeysuckle, Ailanthus, wild grape.

Unit: 14
Acreage 44.05
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Red oak	All		Exotics	Foot traffic	Trash
Deciduous	Hickory spp.	All		Fence	Vehicle access	Fire
Hemicryptophytes	Black cherry	All		Road		Erosion
Slope	White oak	All				
Dry/Moist	Tulip tree	All				
	E. Hemlock	All				

Comments

Large red oak forest unit, northwest of HHP bridge, extending around northern tip of park into middle section. Several areas in the unit are MC: Washout on path to HHP bridge, erosion on eastern slope above unit 7, severe erosion to west of bridge path (north of photo 5). Other spp.: black locust, sycamore and red maples, chestnut and black oaks, osage orange, Sassafras, Ailanthus, mapleleaf viburnum, dogwood spp., Aster spp., poison ivy, Asiatic dayflower, white snakeroot, CSG, white ash, day lily, etc.

Unit: 15
Acreage 0.16
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Intertidal				Landfill	Sports Foot traffic	Trash Dumping
Slope Surface water						

Comments

Riprap shoreline along western border of park by Hudson River. Algae and seaweed on rocks.

Unit: 16
Acreage 2.13
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	<5' & 5-30'				Fire
Deciduous	Mugwort	<5' & 5-30'	Yes			
	Goldenrod	<5'				
Slope Dry/Moist	Black cherry	<5' & 5-30'				

Comments

Greatly disturbed, large unit filled with vines visible from southbound highway of HHP. MC: A great number of vines are growing around trees and threatening their existence. Other spp.: pokeweed, milkweed, jewelweed, garlic mustard, wild rose, black locust, mulberry, ash spp., whorled loosestrife, thistle, bladder campion, clover, Queen Anne's lace, mint.

Unit: 17
Acreage 0.22
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Scrub	Staghorn sumac	<5' & 5-30'			Campfire	Trash
Deciduous	Wild grape	<5'			Foot traffic	
Lianas	Mugwort	<5'	Yes			
Level						
Dry/Moist						

Comments

This unit is the sand beach at the northern end, adjacent to the railroad bridge. Included is the clearing to the southwest of the beach. Other spp.: cool season grass, seaside goldenrod, Phragmites, knotweed, indigo, birch spp., red oak, American elm, mulberry, wild grape, Ailanthus, wineberry, day lily, poison ivy, goldenrod, jewelweed, oak seedlings, curly dock, staghorn sumac, and mugwort.

Unit: 18
Acreage 0.12
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Ailanthus	5'-30'	Yes	Landfill	Foot traffic	Trash
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes	Royal paulownia	5'-30'	Yes			
Slope	Bittersweet	<5'	Yes			
Dry	Wild grape	<5'				
	Clover	<5'	Yes			

Comments

Woodland unit between riprap and Hudson River Railroad tracks. Other spp.: mulberry, Rubus, campion, goldenrod, butter-and-eggs.

Unit: 19
Acreage 4.65
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	All		Landfill	Foot traffic	Cut trees
Deciduous	Black locust	All	Yes			Trash
Lianas	Royal paulownia	<5' & 5-30'	Yes			
Level	Black cherry	All				
Dry	Mugwort	<5'	Yes			
	Bittersweet	<5'	Yes			

Comments

Large disturbed unit that runs along Hudson River Railroad tracks adjacent to Dyckman fields. Other spp.: Virginia creeper, Japanese knotweed, jewelweed, goldenrod, garlic mustard, Japanese honeysuckle, Rubus, wineberry, mulberry, and poison ivy. Good wildlife area (vines provide shelter and food).

Unit: 20
Acreage 1.12
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black cherry	5'-30'		Hedgerow	Sports	Fire
Deciduous	Red oak	<5' & 5-30'		Foundation	Foot traffic	
Hemicryptophytes	White birch	5'-30'		Iron/cement		
Slope	White snakeroot	<5'				
Dry/Moist						

Comments

Unit is located on slope near unit 16, adjacent to HHP south near toil booth plaza, building evidence (foundations, pottery shards, glass, bricks) possibly McCreary residence. Other spp.: 2 large patches of ferns (2 spp.) on either side of culvert, day lily, poison ivy, wineberry, ash and Sassafras regeneration, garlic mustard, mulberry, Jack-in-the-pulpit, Solomon's plume, jewelweed, and hickory spp.

Unit: 21
Acreage 0.21
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Scrub Deciduous Chamaephytes Slope Dry/Moist	Staghorn sumac	<5' & 5-30'				

Comments

Unit densely filled with staghorn sumac which are shading out the groundcover. Few vines on surface cover. The clearing at pole 118 is included in this unit, yet garlic mustard, pokeweed, milkweed, poison ivy, and wild grape are more prevalent. Other spp.: bittersweet, poison ivy, goldenrod, wineberry, wild grape.

Unit: 22
Acreage 0.41
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous Deciduous Hemicryptophytes Slope Dry/Moist	Cool season grass	<5'				

Comments

Small unit of managed lawn adjacent to HHP. Other spp.: clover, dandelion, and plantain.

Unit: 23
Acreage 0.43
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Red oak	All				Trash
Deciduous	Sycamore maple	All	Yes			Asphalt
Lianas	Poison ivy	<5' & 5-30'				Fire
Knoll						
Moist						

Comments

Small forest unit west of HHP north, near toll plaza between N & S lanes. Vines are enroaching on trees as a result of dumping, this area is greatly disturbed. Other spp.: mugwort, Ailanthus, Queen Anne's lace, Sassafras, Japanese honeysuckle, Virginia creeper, milkweed, mapleleaf viburnum, wineberry, white snakeroot, ash, cherry apple, horsechestnut, moss, and Paulownia.

Unit: 24
Acreage 4.12
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Red oak	All		Walk/metal		Trash
Deciduous	Red maple	All		Foundation		Dumping
Phanerophytes						Auto
Slope						
Dry/Moist						

Comments

Large forest unit in between the two highways of the HHP. Other spp: Virginia creeper, poison ivy, white snakeroot, poison ivy, CSG, moss, wineberry, goldenrod, sycamore maple, black birch, mapleleaf viburnum, Sassafras, ash spp., hickory spp., dogwood spp., day lily, chestnut oak, Ailanthus, mugwort, Solomon's plume, black locust, wild grape.

Unit: 25
Acreage 0.07
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black cherry	All			Foot traffic	Defecation
Deciduous	Flowering dogwood	<5' & 5-30'				
Hemicryptophytes	White ash	<5'				
Slope	Sassafras	<5'				
Moist						

Comments

Small unit of black cherries south of Sassafras unit 28 and bordering Kahlen homestead unit 26. Other spp: garlic mustard, red oak, poison ivy, Virginia creeper, Solomon's plume, maple spp.

Unit: 26
Acreage 1.03
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Red oak	All		Foundation	Foot traffic	Fire
Deciduous	Black locust	>30'	Yes	Full-crown		
Hemicryptophytes	Norway maple	All	Yes	Hedgerow		
Slope	Mulberry spp.	All	Yes			
Dry/Moist	Copper beech	>30'	Yes			

Comments

Site of Kahlen homestead with diverse tree species and old foundations. Although no one species dominates, the existence of copper beech, chestnut oak, and red oak may indicate a predominance of oak. MC: Historically significant site. Other spp.: honey locust, day lily, hackberry, Ailanthus, garlic mustard, Virginia creeper, poison ivy, white ash, wineberry, sensitive fern, chestnut oak.

Unit: 27
Acreage 0.26
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	<5' & 5-30'				Defecation
	Wineberry	<5'	Yes			
Lianas	Garlic mustard	<5'				
Level						
Dry/Moist						

Comments

Vineland unit adjacent to railroad tracks, excellent wildlife habitat. MC: vines enroaching on red oak trees. Unit also includes vineland behind Sassafras unit 28.

Unit: 28
Acreage 0.18
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Sassafras	All			Foot traffic	Dumping
Deciduous						Fire
Phanerophytes						Trash
Slope						
Dry/Moist						

Comments

Unit of tall Sassafras trees adjacent to train tracks and next to unit 27. Sassafras regeneration is evident. MC: Unique healthy stand of Sassafras. Good buffer between heavily used footpath on edge of unit and tracks make it prone to vandalism. Other spp: poison ivy, garlic mustard, etc.

Unit: 29
Acreage 1.22
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	red oak	<5' & >30'		Exotics	Foot traffic	Fire
Deciduous	Hickory spp.	<5' & 5-30'				Dumping
Lianas	Poison ivy	<5'				
Slope	Tulip tree	>30'				
Dry/Moist	American elm	>30'				

Comments

Unit borders railroad with red oak canopy and herbaceous layer predominantly of vines. MC: Impact of railroad clearing and usage. Other spp: Virginia creeper, garlic mustard, milkweed, goldenrod, white snakeroot, day lily, bittersweet, Solomon's seal, Solomon's plume, dogwood spp., and Ailanthus.

Unit: 30
Acreage 0.85
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	5'-30'	Yes	Hedgerow	Foot traffic	
Deciduous	Red oak	5'-30'			Toilet	
Hemicryptophytes	Hickory spp.	<5' & 5-30'				
Level						
Dry/Moist						

Comments

Unit begins as band running along railroad tracks and opens up to include wider area. Based on 1932 map of estates and as field observation show, Kahlen residence was on photo # 4. Other spp: garlic mustard, rose, wineberry, jewelweed, dogwood, privet.

Unit: 31
Acreage 0.09
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Ailanthus	5'-30'	Yes		Foot traffic	
Deciduous	Mulberry	5'-30'	Yes			
Geophytes	Day lily	<5'	Yes			
Slope						
Dry/Moist						

Comments

Unit bordering HHP south and slopes steeply down to path, almost all day lily on slope bordering locust unit, a few of which are dead due to vine cover. Other spp: garlic mustard, ash spp., black cherry, red oak.

Unit: 32
Acreage 0.22
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Mugwort	<5'	Yes			Erosion
	Staghorn sumac	<5' & 5-30'				Trash
Hemicryptophytes	Wild grape	<5' & 5-30'				
Slope						
Dry/Moist						

Comments

This is a disturbed unit that runs along HHP south. MC: some of highway is being undermined, causing severe erosion and possibly dangerous situation on the highway. North of the overpass is a section of this unit, which has a stand of bracken fern, which is holding its own in the mugwort. Beyond that is a stand of staghorn sumac, parts of which are covered with wild grape. Other spp: Ailanthus, day lily, jewelweed, garlic mustard, black locust, white snakeroot and horsetail. Severe erosion on both sides of bridge wall.

Unit: 33
Acreage 0.06
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Bittersweet	<5' & 5-30'	Yes		Foot traffic	Vandalism
Deciduous	Ailanthus	<5' & 5-30'	Yes			
Lianas						
Slope						
Dry/Moist						

Comments

Small vineland strip of bittersweet growing over ground into crowns of trees and over stone wall to the underpass. MC: The slate steps leading under the HHP south are broken and dangerous. Other spp: chestnut oak, mulberry, Rubus, red maple, Norway maple, mugwort, smartweed, red oak, arrowwood, Virginia creeper, black cherry, wild grape, mapleleaf viburnum, white ash, flowering dogwood, staghorn sumac, black locust, and black birch.

Unit: 34
Acreage 0.37
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black cherry	5'-30'		Hedgerow	Foot traffic	
Deciduous	Garlic mustard	<5'	Yes	Exotics	Vehicle access	
Geophytes	Mulberry	5'-30'	Yes		Toilet	
Level						
Moist						

Comments

There is evidence that most of this unit was planted (privet, dogwood, osage orange). MC: road was cut into park during Paulownia incident. Other spp: poison ivy, jewelweed, white snakeroot, wineberry, Virginia creeper, jewelweed, snakeroot, wineberry, mulberry, and Virginia creeper.

Unit: 35
Acreage 0.23
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Jewelweed	<5'			Foot traffic	Trash
	Wild grape	<5'				
Therophytes	Poison ivy	<5'				
Level	Garlic mustard	<5'	Yes			
Moist	Milkweed	<5'				

Comments

The center of the unit is predominantly jewelweed. A small stone drain empties in this unit. The wild grape tends to be along the edge of the unit and is growing into the lower branches of some trees. MC: the unit contains some nice wildflowers, and it may be worth trying to promote as a meadow rather than the vineland it seems it will become. The unit is on a gradual slope below sumac unit 21 and than levels out. Other spp: fern, Jack-in-the-pulpit, milkweed.

Unit: 36
Acreage 0.06
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Scrub	Staghorn sumac	<5' & 5-30'				Fire
Deciduous	Garlic mustard	<5'	Yes			
Chamaephytes	Wild grape	<5'				
Slope	J. Honeysuckle	<5'	Yes			
Moist						

Comments

Small unit of staghorn sumac with understory of wild grape growing onto some of the sumacs. Other species along the edge include golden rod, milkweed, and poison ivy.

Unit: 37
Acreage 0.17
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black birch	5'-30'		Fence	Foot traffic	
Deciduous	Witch hazel	5'-30'				
Lianas	Virginia creeper	<5'				
Slope						
Dry/Moist						

Comments

Unit borders on oak unit 29 and slopes down towards RR tracks, level portion of the unit is moister. Trees along the edge of unit will be cut and pruned for RR. Feeding on leaves is evident throughout. MC: Buffer should be maintained along RR tracks. Other spp.: wineberry, garlic mustard, poison ivy, red oak, cherry, Forsythia.

Unit: 38
Acreage 0.05
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Jewelweed	<5'			Foot traffic	
Therophytes						
Slope						
Moist						

Comments

This unit is wetter than most sections in the park due to water drains from the highway and the pathways and drain (culvert) within the unit. Location is near bridge that crosses from Dyckman fields. This unit, which has similar moist soil and jewelweed to unit 39, joins unit 39 on the tracks. Other species include wineberry and garlic mustard.

Unit: 39
Acreage 0.17
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	All	Yes	Landfill	Foot traffic	Vandalism
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes	Jewelweed	<5'				
Level	White snakeroot	<5'				
Dry						

Comments

Small forest unit south of overpass. Drainpipe is cause of different species content. Other species: wineberry, Virginia creeper, garlic mustard, goldenrod, and wild grape.

Unit: 40
Acreage 0.08
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Scrub	Staghorn sumac	5'-30'		Exotics	Foot traffic	Fire
Deciduous	Poison ivy	<5'				Dumping
Chamaephytes	Wineberry	<5'	Yes			Trash
Slope	J. Honeysuckle	<5'	Yes			
Dry/Moist	Virginia creeper	<5'				

Comments

Similar to Sassafras unit but overstory is staghorn sumac. The larger sumac are covered with vines. The sumacs go up to the border of the HHP. Nice clumps of Solomon's seal close to the western border of the unit. Other spp.: mapleleaf viburnum, day lily, red oak, white snakeroot, bittersweet, and wild grape.

Unit: 41
Acreage 0.22
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Red oak	>30'			Foot traffic	Fire
Deciduous	Sassafras	<5' & 5-30'				Dumping
Phanerophytes	Black cherry	<5' & 5-30'				
Slope	Hickory spp.	<5'				
Dry/Moist						

Comments

Unit is located below HHP south. Fire scars up to 15' on large trees and Sassafras saplings. Dominant groundcovers include red oak, Sassafras, black cherry, hickory spp. Seedlings and saplings, wineberry and poison ivy. Other spp: Virginia creeper, day lily, garlic mustard.

Unit: 42
Acreage 0.94
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	>30'		Landfill	Foot traffic	Trash
Deciduous						Dumping
Lianas						
Slope						
Moist						

Comments

The unit borders the HHP to the east and RR tracks to west. Unusually large holes near the highway. Moist soil due to 2 days rain. MC: wild grape dominates the unit and covers the trees (red oak, maple, and ash), unmanaged, the entire area will become dominated by wild grape. Other spp: American elm, Japanese honeysuckle, garlic mustard.

Unit: 43
Acreage 0.01
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Sassafras	All			Foot traffic	Fire
Deciduous	Red oak	>30'				
Hemicryptophytes	American elm	>30'				
Slope						
Dry/Moist						

Comments

This unit is located below the vineland and along the RR predominantly consisting of large Sassafras trees. Large fire scars can be seen on all of the large trees approximately 10' up the trunk. Toward the northern boundary of this unit are two Eastern hemlock (>30'). There is erosion at the spot where the drainpipe runs through. Other spp.: white ash, garlic mustard, white snakeroot, black cherry, poison ivy, Virginia creeper, Japanese honeysuckle, and flowering dogwood.

Unit: 44
Acreage 0.60
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	>30' & 5-30'	Yes		Foot traffic	
Deciduous	Sassafras	All				
Therophytes						
Slope						
Dry/Moist						

Comments

Small forest unit next to unit 24 between the HHP south and north. Other spp: Ailanthus, tulip tree, day lily, wineberry, mapleleaf viburnum, red oak, milkweed, goldenrod, white snakeroot, hickory spp., Rubus, black cherry, Aster, Asiatic dayflower, enchanter's nightshade, Japanese honeysuckle.

Unit: 45
Acreage 0.71
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	American elm	All			Foot traffic	Auto
Deciduous	Wild grape	<5' & 5-30'				Trash
Lianas						
Slope						
Moist						

Comments

Woodland strip with vines covering ground and some trees. Will become vineland soon. Also lots of shrubs (arrowwood, Rubus) and herbaceous plants, especially enchanter's nightshade and jewelweed. Other spp.: poison ivy, bittersweet, garlic mustard, tulip tree, London planetree, red oak, pin oak, mulberry, white ash, white wood aster, flowering dogwood, black cherry, Ailanthus, day lily, black locust, black birch, Asiatic dayflower, hickory spp., Eastern hemlock (1), rose, Japanese honeysuckle, and graystem dogwood.

Unit: 46
Acreage 1.97
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	White ash	All		Sewer	Foot traffic	Trash
Deciduous	Red oak	<5' & >30'			Campsite	Dumping
Chamaephytes	Tulip tree	<5' & >30'			Campfire/ party	
Slope	American elm	All				
Moist						

Comments

Large forest with wet-site trees (above, sweetgum and pin oak). Understory with lots of herbaceous spp. and saplings, but a lot of arrowwood. One area with very large tulip tree and some Norway maple. Asphalt path runs through part of unit. Other spp.: hackberry, honey locust , black locust, black cherry, Eastern hemlock, black willow, Sassafras, day lily, poison ivy, Virginia creeper, garlic mustard, ferns, false Solomon's seal, hickory spp., Rubus, mulberry, box elder, horsechestnut. Tent and campsite for squatters.

Unit: 47
Acreage 0.52
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Paper mulberry	>30'	Yes			
Deciduous						
Phanerophytes						
Slope						
Dry/Moist						

Comments

This unit interrupts what would otherwise be a continuous vineland unit. It is characterized by a dominant paper mulberry community and its regeneration. Many other less dominant species like sycamore maple, black cherry, white ash, arrowwood, garlic mustard, poison ivy, and saplings of red oak and black cherry.

Unit: 48
Acreage 0.20
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Black locust	>30'	Yes	Landfill	Foot traffic	Compaction
Deciduous	Mugwort	<5'	Yes			Fire
Hemicryptophytes						
Slope						
Dry						

Comments

Unit is located between cyclone fence (eastern boundary of RR tracks) and HHP south (elevated at this point) sloping down to barren ground under HHP. Dominant vegetation is black locust. Shape of unit is a narrow band. Some locust regenerating but probably won't survive, as there are plans to renovate the RR. Some trees have vines growing upon them, though they're not yet at stage which is considered damaging. Other spp: Artemessia, goldenrod, garlic mustard, jewelweed, lamb's quarters, poison ivy, bird's ft. trefoil, wild rose, Catalpa, etc.

Unit: 49
Acreage 0.37
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert				Landfill	Vehicle access	Compaction
					Vagabond	Trash
Hemicryptophytes					Campfire/ party	Dumping
Slope						
Dry						

Comments

Unit just north of Dyckman Street under HHP, area used as shelter by homeless couple, trash & dumping evident. Other spp: mugwort, ragweed, goldenrod, Queen Anne's lace, dandelion, and dame's rocket. Small wet area from highway runoff. Weedy strip along highway contains wildflowers.

Unit: 50
Acreage 0.63
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'		Foundation	Foot traffic	Trash
	Privet	5'-30'	Yes			
Hemicryptophytes						
Slope						
Dry/Moist						

Comments

This unit is located east of the Dyckman St. exit of HHP southbound. It includes and area that shows as a detour on the photo but has since turned into a grassy strip. Running north-west above and old retainer wall, is a privet hedge that has been planted 7' deep. Along the top strip running east-west, the privet hedge is planted 10' deep. Two sugar maples were also planted in this unit. Other spp: alfalfa, dock, mugwort, wild grape, Queen Anne's lace.

Unit: 51
Acreage 0.07
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Black locust	All	Yes	Foundation	Foot traffic	Erosion
Deciduous	Black cherry	>30' & 5-30'				Compaction
Hemicryptophytes	American elm	5'-30'				Trash
Slope	Red oak	<5' & 5-30'				
Dry/Moist	Sycamore maple	5'-30'	Yes			
	Hawthorn	5-30'				

Comments

Similar situation as in unit 52. Other spp: CSG, poison ivy, curly dock, garlic mustard. There is quite a lot of red oak regeneration.

Unit: 52
Acreage 0.20
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Red oak	All		Foundation		Trash
Deciduous	Black locust	All	Yes	Landfill		
Lianas	Black cherry	All				
Slope	Ailanthus	All	Yes			
Dry/Moist	Mulberry	5'-30'	Yes			

Comments

Unit lies between northbound and southbound lanes of HHP and Dykman Street. Unit is located in a deserted area with no real neighborhood or greenspace character, a feeling of unimportance is generated, however the space has real potential horticulturally and ecologically. Other spp: CSG, day lily, mugwort, and garlic mustard.

Unit: 53
Acreage 0.51
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	<5' & 5-30'	Yes	Foundation	Foot traffic	Trash
Deciduous	Mulberry	<5' & 5-30'	Yes		Toilet	Auto
Hemicryptophytes	American hackberry	5'-30'				Voodoo
Level	American elm	<5' & 5-30'				
Dry/Moist						

Comments

Unit runs east from Dykman Street Garage to the front of the rock clearing. Area should be cleaned up due to its use as a partying ground, and toilet. Other species include: black cherry, maple spp., tulip tree, porcelain berry, white snakeroot, garlic mustard, day lily, mugwort, CSG, false Solomon's seal, wineberry, poison ivy, goldenrod, Japanese honeysuckle, red oak, wild rose, and lilac.

Unit: 54
Acreage 0.92
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'			Picnic	Dumping
					Foot traffic	Erosion
Hemicryptophytes						
Slope						
Dry/Moist						

Comments

Unit includes a managed lawn area bordering the Payson Ave. park house and continues along Dykman St. in a NW direction, also bordering woodland at southern boundary and newly seeded lawn on Payson Ave. NE of park house and older lawn below (predominantly weeds), strip towards Beak St. and strip along rocks used as dump site beyond Staff St. MC: lawns should be fertilized, aerated, seeded, etc., to improve vigor and quality. Narrow band along Staff St. should be seeded with meadow mix. Other spp: plantain, mugwort.

Unit: 55
Acreage 0.84
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	American basswood	5'-30'			Vehicle access	Compaction
Deciduous	Euonymous spp.	<5'	Yes		Sports	
Phanerophytes	Alberta spruce	>30'	Yes		Foot traffic	
Level						
Dry/Moist						

Comments

Unit includes Payson/Dykman park house and its adjacent playground. Area around park house is planted with Euonymus shrubs and a few Alberta spruce. Any other vegetation is absent as there is soil compaction around the trees and shrubs; the rest of the ground is a combination of cobble stones, hex blocks, cement and asphalt; i.e. desert. MC: basswoods are large and their trunks and character should be safeguarded, fertilization and cultivations would help their daily stresses.

Unit: 56
Acreage 0.63
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	J. Honeysuckle	<5'	Yes	Landfill		
Deciduous	Hops	<5' & 5-30'		Exotics		
Lianas	Virginia creeper	<5' & 5-30'				
Slope	Vinca	<5'	Yes			
Moist						

Comments

This unit is in association with rock outcroppings and woodlands southwest of Bolton Road near Payson Ave. building. Large Jack-in-the-pulpit present. Vines dominating the tree species which include sycamore maple, hackberry, hickory spp., and mulberry. No large amount of poison ivy but substantial ornamental vinca plantings are of interest.

Unit: 57
Acreage 0.12
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Sedum	<5'		Bar in Rock		Voodoo
	Mugwort	<5'	Yes	Campfire		Trash
Hemicryptophytes	Scallion	<5'				Fire
Slope	Wineberry	<5'	Yes			
Moist						

Comments

Unit composed of rock outcroppings, bordering unit 58. The edge of the rockface contains sumac spp., dead ash, and ornamental cherry plantings. Rockface is dominated by sedum spp. Possible historical site due to ornamentals and old pipe in rock.

Currently of little concern except that unit is very different from surrounding units and that it offers fine overlook for Dyckman Street.

Unit: 58
Acreage 0.27
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Red oak	5'-30'		Foundation	Foot traffic	Dumping
Deciduous	White ash	<5' & 5-30'		Hedgerow	Vehicle access	Auto
Lianas	Tulip tree	>30'			Sax spot	Trash
Slope	American hackberry	<5' & 5-30'				
Moist						

Comments

Unit is bordered by road coming down to lawn unit 59 on north HHP. The pathway leading from Payson Ave. park house and rock clearing. The edge along the road (unit 59) is encroached by vines, along the western edge of the rock clearing sumacs are regenerating. Old concrete slab/wall border running east to west 15' through unit. MC: vehicle access and potential of area to become vineland should be recognized. Other spp: hackberry, mulberry, wineberry, garlic mustard, poison ivy, day lily, J. honeysuckle, wild rose, etc.

Unit: 59
Acreage 0.63
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'		Full-crown	Foot traffic	Dumping
	Tulip tree	>30'				Fire
Hemicryptophytes						
Level						
Dry/Moist						

Comments

Unit is a managed lawn located just north of the Dykman St. bridge. The installation of a guardrail has kept out abandoned cars that were coming off the highway. The pathway visible from the photo has returned to grasses so it no longer exists. Several large tulip trees are dotted along the lawn. MC: there are quite a few car parts all around the boundaries of the unit that should be removed.

Unit: 60
Acreage 0.33
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black oak	All			Foot traffic	Trash
Deciduous	Black cherry	All			Voodoo	
Hemicryptophytes						
Slope						
Dry/Moist						

Comments

Forest unit of oaks and cherries with understory of mostly Asters, garlic mustard and other herbaceous spp. Some heavy patches of poison ivy and bittersweet growing on trees, regeneration of oak and cherry, Sassafras, hickory spp. and slippery elm saplings. Other spp.: black locust, white ash, flowering dogwood, arrowwood, Solomon's seal, Solomon's plume, Japanese honeysuckle, black birch, Virginia creeper, Ailanthus, Polygonum, wineberry, Rubus, goldenrod, tulip tree saplings, Norway maple, black mulberry, day lily, wild rose, etc.

Unit: 61
Acreage 3.85
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	White ash	>30' & 5-30'			Foot traffic	Voodoo
Deciduous	Mulberry	>30' & 5-30'	Yes			
Lianas	American hackberry	>30' & 5-30'				
Slope	Poison ivy	<5' & 5-30'				
Dry/Moist						

Comments

Large forest unit with great species variety, disturbed, vigor is questionable, many dead ash trees and patches of dense Rubus throughout, possible indication of longterm effect in changing of species composition and forest vigor. MC: Variety of species with the absence of quality native species is alarming and confusing generally the unit appears "trashy". Other species: red oak, Ailanthus, American elm, bitternut hickory, Norway maple, Rubus, day lily, Aster, Virginia knotweed, garlic mustard, Japanese honeysuckle, pink lady's finger, etc.

Unit: 62
Acreage 0.01
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert				Building		Vandalism Trash
Level						
Dry						

Comments

Two abandoned buildings. MC: buildings are off the main pathway and prone to vandalism.

Unit: 63
Acreage 0.25
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Vinca	<5'	Yes		Garden	
Deciduous	Aegopodium	<5'			Foot traffic	
	English ivy	<5'	Yes			
Slope	Pachysandra	<5'	Yes			
Dry/Moist						

Comments

Unit is a garden built into hillside. The area has been expanding each year, by clearing more area, building raised beds and girdling of trees. A lot of debris is stockpiled throughout the unit for future use in the garden. MC: plants that were purchased by DPR and originally planted elsewhere in the park were found here, including Aegopodium, Vinca, barberry, Pachysandra…to name a few. Other spp: Iris, holly hock, buttercup, shasta daisy, carnation and assorted vegetables.

Unit: 64
Acreage 0.56
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Oak, black	All		Drain	Foot traffic	Compaction
Deciduous	Sassafras	All				
Phanerophytes	White ash	All				
Slope	Hickory spp.	All				
Dry/Moist						

Comments

Forest unit adjacent to HHP north, comprised of black oak and other species listed, with a great deal of regeneration of all trees in species list. Understory dominated by saplings, also a great deal of waist high poison ivy on ground and trees. Other spp: Aster spp, Solomon's plume, garlic mustard, day lily, wineberry, enchanter's nightshade, J. honeysuckle, black birch, Virginia creeper, Eastern cottonwood, Norway maple, flowering dogwood, bittersweet, several ash deadfalls, Solomon's seal, goldenrod, polygonum spp, catbrier, etc.

Unit: 65
Acreage 0.24
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest Deciduous Phanerophytes Slope Dry/Moist	Norway maple	All	Yes	Fence	Foot traffic	Erosion Dumping

Comments

Forest patch of Norway maple with bare understory , groundcover mostly leaf litter and twigs. Vegetation <15' consists mostly of Norway maple and black cherry saplings and dogwood spp. Some small patches of day lily and poison ivy (some in trees), also garlic mustard scattered throughout. Numerous deadfalls (elms, oaks, maples) perhaps due to thin soil. Other spp: Asiatic dayflower, Solomon's plume, enchanter's nightshade, day lily, pokeweed, 1 large black oak, oak saplings, wild celery, mulberry, Virginia creeper, Jack-in-the-pulpit, hickory spp.

Unit: 66
Acreage 0.90
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	American elm	>30' & 5-30'		Foundation	Foot traffic	Dead ashes
Deciduous	White ash	<5' & >30'				
Geophytes	Arrowwood	<5' & 5-30'				
Slope	Mulberry	5'-30'	Yes			
Moist	Sedge (celery).	<5'				

Comments

Unit located east of HHP north and peculiar that no one tree species dominates. Unit appears to be transition. Interesting land features are 2 remnants of wooden structure (possibly former root cellar) and large hollow along footpath. Other spp: Eastern hemlock, horsechestnut, hickory spp., maple spp., Ailanthus. Wild celery is dominant understory, but some polygonum.

Unit: 67
Acreage 0.07
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	<5' & 5-30'				Dumping
Deciduous						
Lianas						
Slope						
Dry/Moist						

Comments

Clearing of dense wild grape growing on ground, also covering stand of medium sized elms, Sassafras, flowering dogwood, 1 Paulownia, white ash, several deadfalls. Vines appear to have broken off some of the ash limbs. Wineberry also mixed in, and on edge of vines some pokeweed, garlic mustard, Queen Anne's lace, 1 big elm, large black oak, enchanter's nightshade. MC: because of Paulownia tree and heavy vines, unit is good for wildlife: food and cover.

Unit: 68
Acreage 0.10
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Poison ivy	<5'				
Deciduous	Wild grape	<5' & 5-30'				
Lianas	American elm	All				
Slope						
Moist						

Comments

Unit is bordered by 2 roads west of stone & iron overlook. Other spp.: hickory spp., red oak saplings, Norway maple, osage orange, Ailanthus, Solomon's seal, garlic mustard. Vines are growing into elms and dead white ash and will probably dominate the unit and encroach on adjoining units. Also Hydrangeas as a specimen planting and black cherry (>30').

Unit: 69
Acreage 0.32
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	White oak	>30'				
Deciduous	Hickory spp.	All				
Geophytes	Black birch	>30' & 5-30'				
Slope	Red maple	<5' & >30'				
Dry/Moist	Day lily	<5'	Yes			

Comments

Forest unit adjacent to vineland unit 68, located between two paths. Understory mostly day lily with smaller amounts of garlic mustard, poison ivy, Solomon's plume, deadly nightshade, black locust, arrowwood, some regeneration growth observed, hickory spp., maple spp.

Unit: 70
Acreage 0.58
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	American elm	>30' & 5-30'			Foot traffic	
Deciduous	Tulip tree	>30'				
Geophytes	Black locust	All	Yes			
Slope	Arrowwood	<5' & 5-30'				
Moist						

Comments

Unit located east of HHP north, includes staircase and tunnel under highway, groundcover is predominantly jewelweed, garlic mustard, arrowwood, hickory spp., white ash, Ailanthus, Eastern hemlock, black cherry.

Unit: 71
Acreage 7.71
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black locust	>30' & 5-30'	Yes	Exotics	Foot traffic	Compaction
Mixed	Black cherry	All		Hedgerow		Erosion
Hemicryptophytes	Osage Orange	>30' & 5-30'	Yes	Foundation		Trash
Slope	Eastern hemlock	>30' & 5-30'				
Moist						

Comments

Unit predominantly black locust, and includes strip of trees in transition (mulberry, maple, elm, Paulownia, etc) at HHP. Large forest unit containing a variety of species, 2 well like holes with stonework, evidence of former estates (specimen plantings and foundations) changing topography, wood chip nature trail, fence along HHP. MC: a grove of Eastern hemlock should be managed, including thinning and clearing deciduous overstory. Other spp: tulip tree, red oak, black cherry, hickory spp., mulberry, Andromeda, Rhododendron, poison ivy, etc.

Unit: 72
Acreage 0.88
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Black Locust	>30' & 5-30'	Yes		Foot traffic	Fire
Deciduous	Ailanthus	<5' & 5-30'	Yes		Campfire/ party	Dumping
Hemicryptophytes	Red oak	<5' & >30'			Picnic	
Level	Black cherry	<5' & 5-30'				
Dry/Moist	Ash, spp.	<5'				

Comments

Woodland unit, fire history (charred bases of trees) a few large standing and fallen dead trees. Black locusts are dying out as overstory tree, and resulting in a meadow of ox-eye daisy. The unit is adjacent to unit 71, but due to fire disturbance, is in a different successional stage. MC: should be managed as woodland and meadow and fire prevention is necessary. Other spp: goldenrod, Rubus, white snakeroot, garlic mustard, Japanese honeysuckle, Solomon's plume, Jack-in-the-pulpit, ash regeneration, and Virginia knotweed.

Unit: 73
Acreage 1.15
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Black locust	>30' & 5-30'	Yes	Road	Foot traffic	Fire
Deciduous				Exotics	Campfire/ party	Trash
Hemicryptophytes						Compaction
Slope						
Moist						

Comments

Disturbed locust woodland, evidence of fire, vineland patches, shrubby undergrowth, and herbaceous cover throughout. In south-central portion of unit there is a hole (8'x3') and campsite, soil in this area is very compacted. MC: at one time was open area, might be considered for meadow and control of Ailanthus regeneration. Other spp: osage orange, mulberry, Solomon's plume, garlic mustard, wild grape, wild rose, goldenrod, Japanese honeysuckle, ox-eye daisy, great ragweed, Forsythia, Catalpa, black cherry, oak saplings, exotics, etc.

Unit: 74
Acreage 0.34
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Cool season grass	<5'		Exotics	Foot traffic	Trash
Deciduous	Milkweed	<5'				Compaction
Hemicryptophytes	Wild grape	<5'				
Level						
Dry/Moist						

Comments

MC: large forest unit between units 71 and 74 east of northbound HHP, small hemlocks (15-30') are being encroached on by surrounding taller trees and their existence is being threatened. Eastern hemlocks in unit 71 need management as well. Other spp: black cherry, arrowwood, white ash, flowering dogwood, staghorn sumac, wineberry, Vinca, poison ivy, Virginia creeper, white snakeroot, day lily, enchanter's nightshade, mugwort, bittersweet, wild roses, privet, and black locust.

Unit: 75
Acreage 0.27
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert					Foot traffic Picnic	Trash
Hemicryptophytes Slope Dry/Moist						

Comments

Unit of mostly black cherry and red oak trees that borders HHP northbound and meadow unit 72. Chainlink fence that begins in unit 74 continues along western edge of this unit. Other spp: Asiatic dayflower, arrowwood, privet, staghorn sumac, Asters, false Solomon's seal, ash spp., wineberry, garlic mustard, goldenrod, enchanter's nightshade, hackberry, wild lettuce, and patches of poison ivy and Virginia creeper.

Unit: 76
Acreage 0.07
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Desert Deciduous Phanerophytes Level Dry					Foot traffic Picnic Vehicle access	Vandalism Dumping Trash

Comments

One time scenic overlook, now heavily vandalized and prone to fire damage and an eyesore in the middle of the woods. MC: The options of removing the structure, restoring the structure and clearing the surrounding area to restore vistas and/or incorporating as a stop on a self guided nature trail should be considered. Other spp: black cherry, Ailanthus, porcelain berry, bittersweet, mugwort.

Unit: 77
Acreage 0.65
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Grape, wild	All		Fence	Foot traffic	Trash
Deciduous	Poison ivy	<5' & >30'		Foundation		Fire
Lianas	Porcelain berry	<5' & >30'	Yes	Exotics		Compaction
Level	Bittersweet	All	Yes			
Dry/Moist						

Comments

Unit comprised of a wide variety of species, wood chip nature trail runs through, asphalt pathways near unit 79, evidence of prior use as a comfort station. Other spp: black cherry, white ash, bitternut hickory, horsechestnut, mulberry, Ailanthus, tulip tree, motherwort, thistle, Asiatic dayflower, Aster spp., white vervain, day lily, plum tree, ferns (along rock wall), and ox-eye daisy.

Unit: 78
Acreage 0.06
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Black oak	>30'		Full-crown	Foot traffic	Trash
Deciduous	Horsechestnut	>30'	Yes	Fence	Campfire/ party	Compaction
Hemicryptophytes	Red oak	>30'			Picnic	Erosion
Level						
Dry/Moist						

Comments

Small unit bounded by vinelands, and locust unit 71, comprised primarily of 3 large full crown trees (listed above). Other spp: white snakeroot, garlic mustard, great ragweed, ox-eye daisy, Asiatic dayflower, enchanter's nightshade, mugwort, poison ivy, mulberry, bitternut hickory, bittersweet, goldenrod, and Virginia knotweed.

Unit: 79
Acreage 7.71
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Mugwort	<5'	Yes		Foot traffic	Trash
Deciduous	Goldenrod	<5'				
Hemicryptophytes						
Level						
Dry/Moist						

Comments

Unit is northeast of long rock wall and is comprised mainly of mugwort. MC: Potential as wildflower meadow of similar open space in an otherwise forested area. Other spp: Rubus, Ailanthus seedlings, black locust, white ash -- all at perimeter of unit.

Unit: 80
Acreage 0.07
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Herbaceous	Jewelweed	<5'			Foot traffic	
Therophytes						
Slope						
Moist						

Comments

Unit comprised mainly of jewelweed, with wild grape patches at the edges. Open area surrounded by forest units.

Unit: 81
Acreage 1.06
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Norway maple	5'-30'	Yes	Well	Foot traffic	Fire
Deciduous	Sycamore maple	<5' & 5-30'	Yes			Trash
Hemicryptophytes	Bitternut hickory	<5' & 5-30'				Defecation
Slope						
Moist						

Comments

Ranger trail runs through unit and leads to large tree stump, unit very diverse, north portion (near 2 large hemlocks) void of groundcover/understory while southeast portion has more diversity and changing topography. Remains of stone foundations. soil is very moist. Other spp: Sassafras, white ash, E. hemlock, black locust, osage orange, Asters, poison ivy, white snakeroot, day lily, wild bean, porcelain berry, great ragweed, wild rose, goldenrod, Virginia knotweed, Asiatic dayflower.

Unit: 82
Acreage 0.48
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Woodland	Red oak	>30'			Foot traffic	Fire
Deciduous	Ailanthus	All	Yes			
Phanerophytes	Black cherry	>30' & 5-30'				
Slope						
Moist						

Comments

Small red oak unit with a majority of Ailanthus saplings as understory. Other spp: ash sp., bitternut hickory, mulberry, 1 large Paulownia, small white oaks, tulip tree saplings, poison ivy, Virginia knotweed, Asters, Rubus, garlic mustard, white snakeroot, spicebush, Virginia creeper, arrowwood. Evidence of fire--blackened trees. Very rich moist soil.

Unit: 83
Acreage 1.12
Mgmt. Concern: No

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Closed Forest	Tulip tree	>30'			Foot traffic	
Deciduous	Hickory spp.	>30' & 5-30'				
Hemicryptophytes	Black cherry	All				
Undulating	Ash spp.	<5' & 5-30'				
Moist	Arrowwood	<5' & 5-30'				

Comments

Forest unit comprised of a wide variety of plant species, which may indicate its transitional state and a prior disturbance, rich moist soil. Tree spp.: red oak seedlings, black locust, staghorn sumac. Understory spp.: poison ivy, porcelain berry, wild grape, Rubus, Aster, spicebush, wild bean, Virginia knotweed. Tulip trees are very large. Occasional large red oaks.

Unit: 84
Acreage 0.06
Mgmt. Concern: Yes

Site	Species	Height	Exotic	Historical	Uses	Disturbance
Vineland	Wild grape	All			Foot traffic	
	Porcelain berry	5'-30'	Yes			
Lianas						
Level						
Dry/Moist						

Comments

Small vineland unit encroaching on adjacent forest. Other spp.: wineberry, wild rose, great ragweed, day lily, garlic mustard, Virginia creeper, Japanese honeysuckle, Rubus. Unit is bounded by ranger nature trail on wet. Management concern: Vines encroaching on Eastern hemlock, a unique feature in Inwood's forest.