

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.

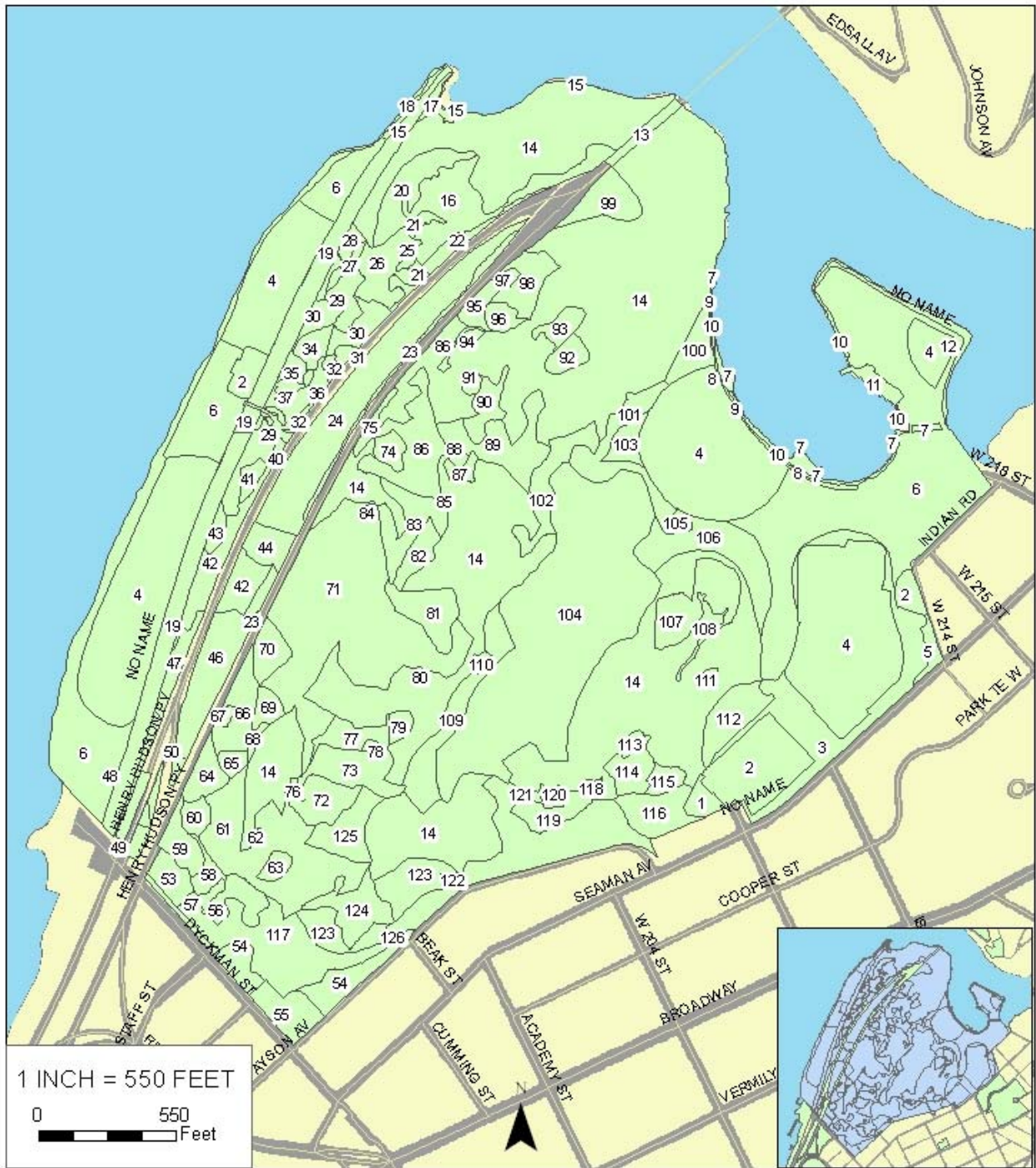
To facilitate the protection, management and restoration of Inwood Hill Park, NRG completed an inventory of the area using entitiation, a process of identifying and describing ecologically distinct plant communities. Using aerial photographs and field reconnaissance, Parks staff delineated distinct ecological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



1 INCH = 550 FEET
 0 550 Feet

**ENTITAINMENT UNITS - MARCH 1989
 INWOOD HILL PARK
 NEW YORK COUNTY, CITY OF NEW YORK**

01/09/2009



**City of New York
 Parks & Recreation
 Natural Resources Group**

Arsenal North, 1234 Fifth Avenue, New York, NY 10029

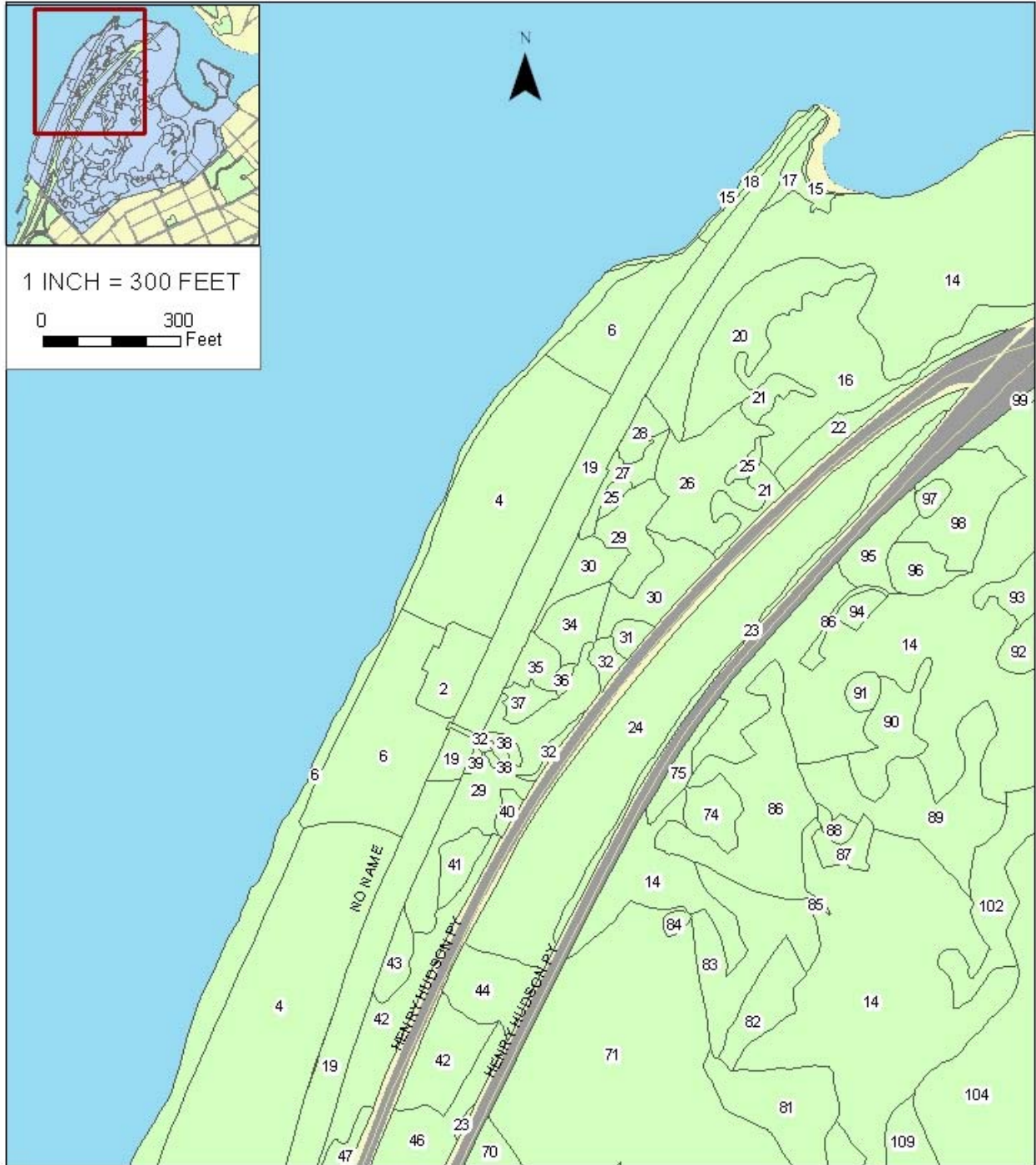
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1 INCH = 300 FEET



ENTITATION UNITS - MARCH 1989
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NEW YORK COUNTY, CITY OF NEW YORK



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Natural Resources Group

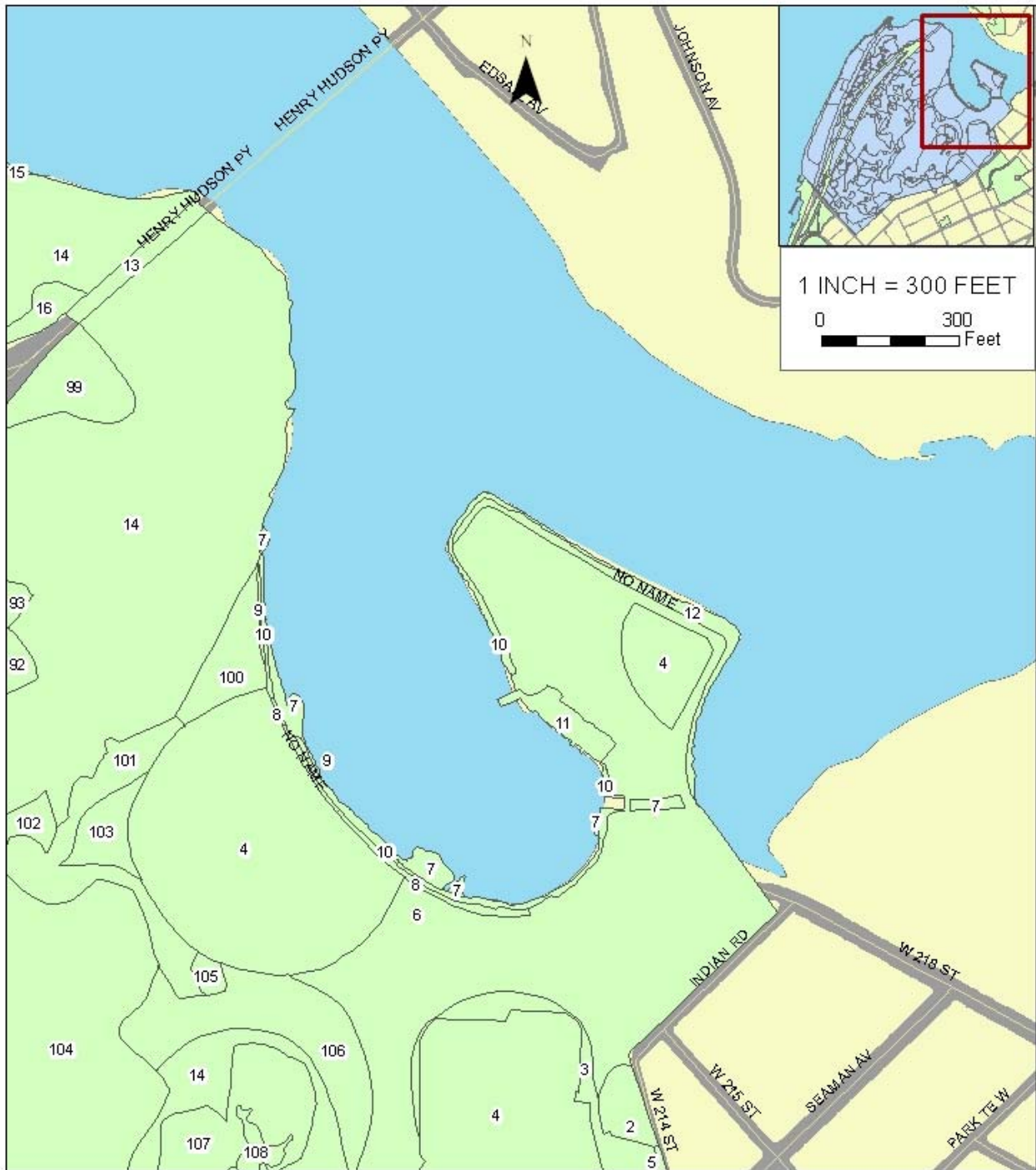
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**ENTITATION UNITS - MARCH 1989
INWOOD HILL PARK
NEW YORK COUNTY, CITY OF NEW YORK**

01/09/2009



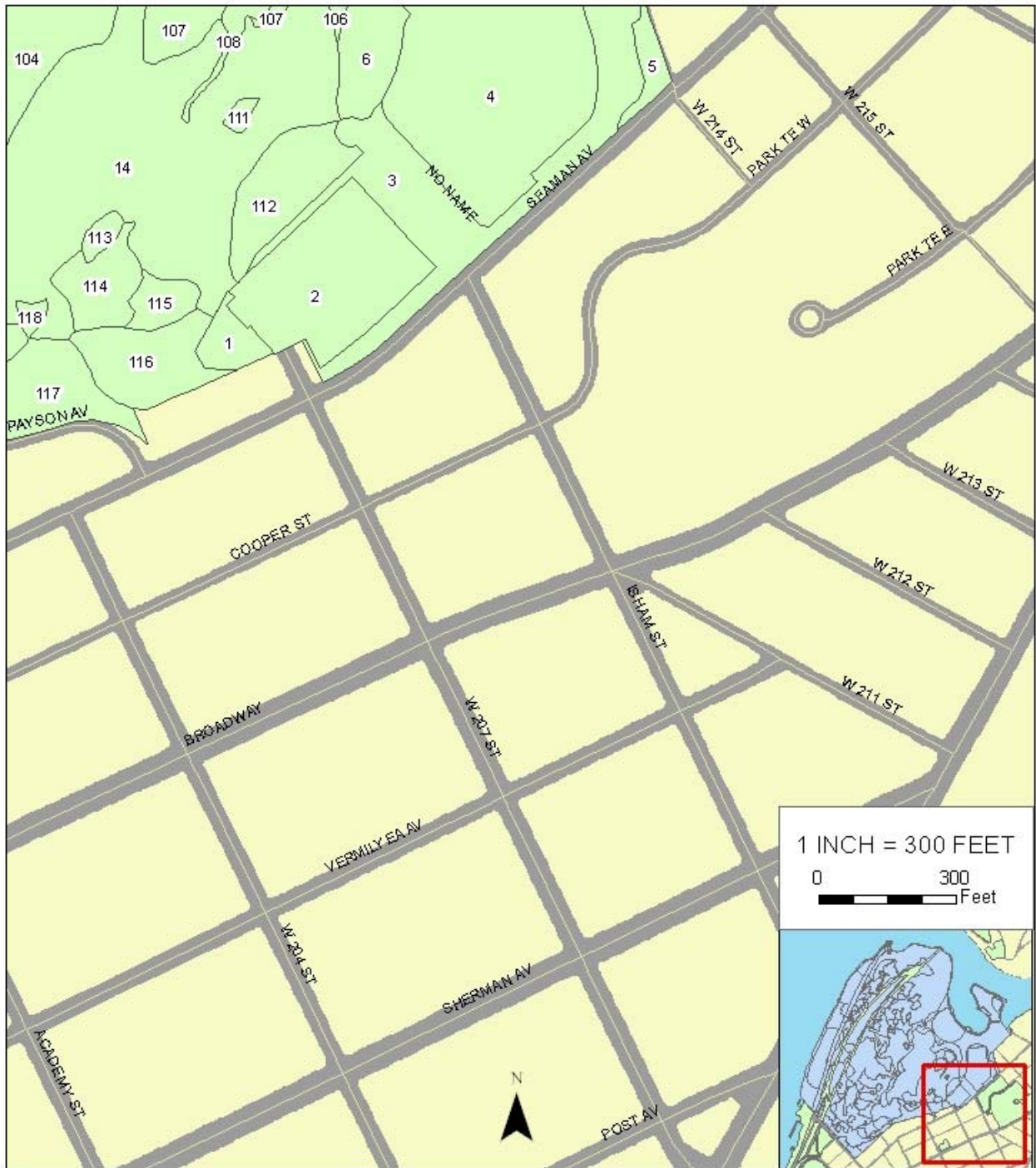
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ENTITATION UNITS - MARCH 1989
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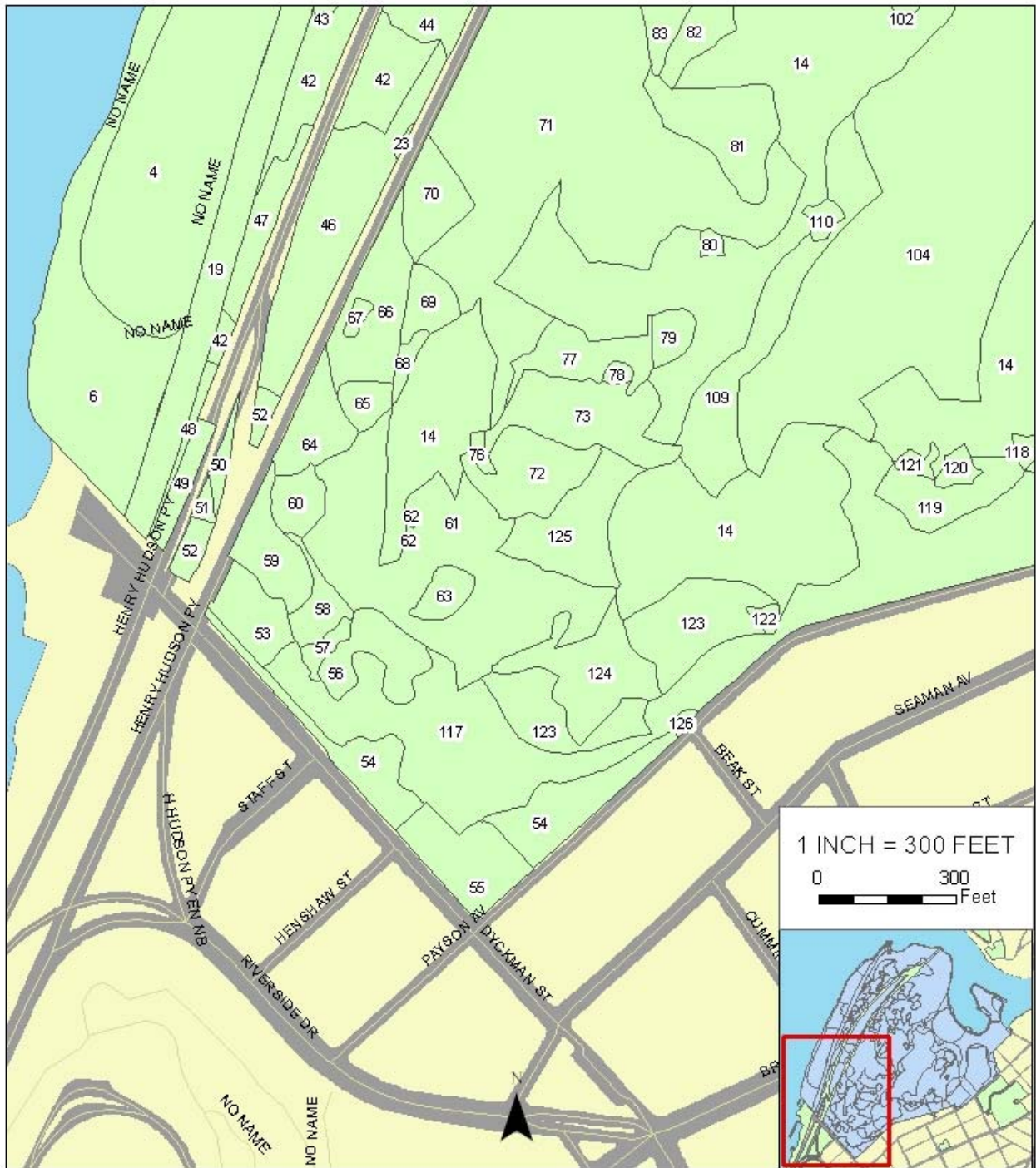
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**ENTITATION UNITS - MARCH 1989
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01/09/2009



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Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 1
Acreage: 0.31
Mgmt. Concern: Yes

<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'			Foot traffic	Trash
	Burdock, common	<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 Avenue 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert				Exotics	Playground	Compaction
				Full-crown		Vandalism
Hemicryptophytes						Trash
Level						
Dry						

Comments:

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

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 3
Acreage: 2.76
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Sweetgum	>30'			Foot traffic	Trash
Deciduous	Oak, pin	>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

<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'		Landfill	Sports Foot traffic	Trash Compaction
Hemicryptophytes						
Level						
Dry/Moist						

Comments:

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

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 5
Acreage: 0.28
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	London planetree	>30'	Yes	Landfill	Foot traffic	Compaction
Deciduous	Hawthorn	5'-30'		Full-crown	Picnic	Trash
Phanerophytes	Oak, pin	>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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 7
Acreage: 0.43
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Intertidal	Salt water cordgrass Salt reed grass	<5' 5'-30'			Foot traffic	Trash
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 vigorous, 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort Curly dock	<5' <5'	Yes Yes	Landfill	Foot traffic	Trash
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 9
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Intertidal				Landfill	Sports Foot traffic	Trash
Slope						
Surface water						

Comments:

Riprap shoreline. Management concern: Wetland restoration site.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 11
Acreage: 0.33
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert				Canoe house	Boat house Foot traffic Vehicle access	Compaction Vandalism Trash
Hemicryptophytes 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 13
Acreage: 0.34
Mgmt. Concern: No

<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			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

<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		Exotics	Foot traffic	Trash
Deciduous	Hickory spp.	All		Fence	Vehicle access	Fire
Hemicryptophytes	Black cherry	All		Road		Erosion
Slope	Oak, white	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...

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 15
Acreage: 0.16
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

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

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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 17
Acreage: 0.22
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 19
Acreage: 4.65
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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. wildlife area (vines provide shelter and food).

Unit: 20
Acreage: 1.12
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	5'-30'		Hedgerow	Sports	Fire
Deciduous	Oak, red	<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 toll 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 21
Acreage: 0.21
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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, goldenrod, wineberry, wild grape.

Unit: 22
Acreage: 0.41
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 23
Acreage: 0.43
Mgmt. Concern: No

<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	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 and S lanes. Vines are encroaching 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, horse chestnut, moss, and Paulownia.

Unit: 24
Acreage: 4.12
Mgmt. Concern: No

<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		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, 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 25
Acreage: 0.07
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Defecation
Deciduous	Flowering dogwood	<5' & 5-30'				
Hemicryptophytes	Ash, white	<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

<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		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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 27
Acreage: 0.26
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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 encroaching on red oak trees. Unit also includes vineland behind Sassafras unit 28.

Unit: 28
Acreage: 0.18
Mgmt. Concern: Yes

<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			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 foot path on edge of unit and tracks make it prone to vandalism. Other spp: poison ivy, garlic mustard, etc.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 29
Acreage: 1.22
Mgmt. Concern: Yes

<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	<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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	5'-30'	Yes	Hedgerow	Foot traffic	
Deciduous	Oak, red	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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 31
Acreage: 0.09
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<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			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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 33
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 35
Acreage: 0.23
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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 then levels out. Other spp: fern, Jack-in-the-pulpit, milkweed.

Unit: 36
Acreage: 0.06
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Staghorn sumac	<5' & 5-30'				Fire
Deciduous	Garlic mustard	<5'	Yes			
Chamaephytes	Wild grape	<5'				
Slope	Japanese 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 37
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Jewelweed	<5'			Foot traffic	
Therophytes						
Slope						
Moist						

Comments:

This unit is wetter than most section 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 39
Acreage: 0.17
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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. Drain pipe 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

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

Comments:

Similar to Sassafra unit but overstory is staghorn sumac. The larger sumacs 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 41
Acreage: 0.22
Mgmt. Concern: No

<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'			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 ground covers include red oak, Sassafras, black cherry, hickory spp. seedlings and saplings, wineberry and poison ivy. Other spp: Virginia creeper, day lily, and garlic mustard.

Unit: 42
Acreage: 0.94
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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, and garlic mustard.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 43
Acreage: 0.01
Mgmt. Concern: No

<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			Foot traffic	Fire
Deciduous	Oak, red	>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 drain pipe 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 45
Acreage: 0.71
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Ash, white	All		Sewer	Foot traffic	Trash
Deciduous	Oak, red	<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, horse chestnut. Tent and campsite for squatters.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 47
Acreage: 0.52
Mgmt. Concern: No

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

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

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

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: Artemesia, goldenrod, garlic mustard, jewelweed, lamb's quarters, poison ivy, bird's foot trefoil, wild rose, Catalpa, etc...

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 49
Acreage: 0.37
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert				Landfill	Vehicle access Vagabond Campfire/ party	Compaction Trash Dumping
Hemicryptophytes Slope Dry						

Comments:

Unit just north of Dyckman Street under HHP, area used as shelter by homeless couple, trash and 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

<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 Privet	<5' 5'-30'		Foundation	Foot traffic	Trash
Hemicryptophytes Slope Dry/Moist			Yes			

Comments:

This unit is located east of the Dyckman Street exit of HHP southbound. It includes an 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 51
Acreage: 0.07
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black locust	All	Yes	Foundation	Foot traffic	Erosion
Deciduous	Black cherry	>30' & 5-30'				Compaction
Hemicryptophytes	American elm	5'-30'				Trash
Slope	Oak, red	<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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Oak, red	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 Dyckman 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 53
Acreage: 0.51
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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 Dyckman Street Garage to the front of the rock clearing. Area should be cleaned up due to its use as a partying ground, toilet, and devil worship site. 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

<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'			Picnic Foot traffic	Dumping Erosion
Hemicryptophytes						
Slope						
Dry/Moist						

Comments:

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

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 55
Acreage: 0.84
Mgmt. Concern: Yes

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

Comments:

Unit includes Payson/Dyckman 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Japanese 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 Avenue 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 57
Acreage: 0.12
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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 rock face contains sumac spp., dead ash and ornamental cherry plantings. Rock face 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

<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	5'-30'		Foundation	Foot traffic	Dumping
Deciduous	Ash, white	<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 Avenue 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, Japanese honeysuckle, wild rose, etc.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 59
Acreage: 0.63
Mgmt. Concern: Yes

<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'		Full-crown	Foot traffic	Dumping
Hemicryptophytes	Tulip tree	>30'				Fire
Level						
Dry/Moist						

Comments:

Unit is a managed lawn located just north of the Dyckman Street 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 61
Acreage: 3.85
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Ash, white	>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 long-term 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert				Building		Vandalism Trash
Level						
Dry						

Comments:

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

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 63
Acreage: 0.25
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Vinca	<5'	Yes		Garden	
Deciduous	Aegopodium	<5'			Foot traffic	
	Ivy, English	<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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, black	All		Drain	Foot traffic	Compaction
Deciduous	Sassafras	All				
Phanerophytes	Ash, white	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...

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 65
Acreage: 0.24
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Geophytes Slope Moist	American elm Ash, white Arrowwood Mulberry Sedge (celery).	>30' & 5-30' <5' & >30' <5' & 5-30' 5'-30' <5'	Yes	Foundation	Foot traffic	Dead ashes

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, horse chestnut, hickory spp., maple spp., Ailanthus. Wild celery is dominant understory, but some Polygonum.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 67
Acreage: 0.07
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland Deciduous Lianas Slope Dry/Moist	Grape, wild	<5' & 5-30'				Dumping

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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland Deciduous Lianas Slope Moist	Ivy, poison Wild grape American elm	<5' <5' & 5-30' All				

Comments:

Unit is bordered by 2 roads west of stone and 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').

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 69
Acreage: 0.32
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, white	>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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	American elm	>30' & 5-30'				
Deciduous	Tulip tree	>30'			Foot traffic	
Geophytes	Locust, black	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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 71
Acreage: 7.71
Mgmt. Concern: Yes

<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' & 5-30'	Yes	Exotics	Foot traffic	Compaction
Mixed	Cherry, black	All		Hedgerow		Erosion
Hemicryptophytes	Osage Orange	>30' & 5-30'	Yes	Foundation		Trash
Slope	Hemlock, Eastern	>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 foundation) changing topography, woodchip 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

<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' & 5-30'	Yes		Foot traffic	Fire
Deciduous	Ailanthus	<5' & 5-30'	Yes		Campfire/ party	Dumping
Hemicryptophytes	Oak, red	<5' & >30'			Picnic	
Level	Cherry, black	<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, J. honeysuckle, Solomon's plume, Jack-in-the-pulpit, ash regeneration, and Virginia knotweed.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 73
Acreage: 1.15
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland Deciduous Hemicryptophytes Slope Moist	Locust, black	>30' & 5-30'	Yes	Road Exotics	Foot traffic Campfire/ party	Fire Trash Compaction

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 there 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous Deciduous Hemicryptophytes Level Dry/Moist	Cool season grass Milkweed Grape, wild	<5' <5' <5'		Exotics	Foot traffic	Trash Compaction

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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 75
Acreage: 0.27
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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. Chain link 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert					Foot traffic Picnic Vehicle access	Vandalism Dumping Trash
	Deciduous Phanerophytes Level Dry					

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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 77
Acreage: 0.65
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Grape, wild	All		Fence	Foot traffic	Trash
Deciduous	Ivy, poison	<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, woodchip 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, horse chestnut, 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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, black	>30'		Full-crown	Foot traffic	Trash
Deciduous	Horse chestnut	>30'	Yes	Fence	Campfire/ party	Compaction
Hemicryptophytes	Oak, red	>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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 79
Acreage: 7.71
Mgmt. Concern: Yes

<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		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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 81
Acreage: 1.06
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Norway maple	5'-30'	Yes	Well	Foot traffic	Fire
Deciduous	Sycamore maple	<5' & 5-30'	Yes			Trash
Hemicryptophytes	Hickory, bittersnut	<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, Eastern 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

<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'			Foot traffic	Fire
Deciduous	Ailanthus	All	Yes			
Phanerophytes	Cherry, black	>30' & 5-30'				
Slope						
Moist						

Comments:

Small red oak unit with a majority of Ailanthus saplings as understory. Other spp: ash sp., bittersnut 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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 83
Acreage: 1.12
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Tulip tree	>30'			Foot traffic	
Deciduous	Hickory spp.	>30' & 5-30'				
Hemicryptophytes	Cherry, black	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

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Grape, wild	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.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 85
Acreage: 0.02
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland						
Lianas						
Level						
Dry/Moist						

Comments:

Small vineland at junction of several paths surrounded by forest, vines may encroach on adjacent trees.

Unit: 86
Acreage: 0.88
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5' & 5-30'	Yes		Foot traffic	Trash
Deciduous	Tick trefoil	<5'	Yes			
Lianas	Wineberry	<5' & 5-30'	Yes			
Level	Rose	<5' & 5-30'				
Dry/Moist	Wild bean	<5'				
	Poison ivy	<5'				

Comments:

Large vineland, surrounding meadow unit 74, also borders unit 75. Some clearings made by fallen trees at edge of unit. Other spp.: Japanese honeysuckle, bittersweet, goldenrod, Virginia knotweed, white ash, bitternut hickory, black birch, and red oak. MC: Vines could encroach on adjacent meadow and forest.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 87
Acreage: 0.20
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland Deciduous Lianas Level Dry/Moist	Porcelain berry	5'-30'	Yes		Foot traffic	

Comments:

Paved path runs through vineland clearings in forest. Other spp.: great ragweed, wineberry, milkweed, goldenrod, Rubus, Virginia knotweed, CSG, bittersweet, (quite a lot in some areas) tick trefoil, and periwinkle.

Unit: 88
Acreage: 0.12
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous Geophytes Level Dry/Moist	Knotweed, Japanese	5'-30'	Yes			

Comments:

The vines in unit 87 may take over this entire clearing, but right now the Japanese knotweed is holding its own and invading the nearby wooded area.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 89
Acreage: 1.67
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Ash, white	All		Foundation	Foot traffic	Fire
Deciduous	Black cherry	All				
Hemicryptophytes	Ailanthus	<5' & 5-30'	Yes			
Slope						
Moist						

Comments:

Unit comprised primarily of white ash of uncertain vigor. Some large dead/dying trees, although many ash saplings present. Stone walls and foundations present, footpaths, with great geologic views. Other spp.: dogwood, Paulownia, mulberry, Sassafras, red oak saplings, Osage orange, horse chestnut, day lily, garlic mustard, aster, Wisteria, Kenilworth ivy, CSG, Japanese honeysuckle, wineberry, hickory spp., Virginia creeper. MC: Ash dieback may result in invasive exotics taking over if this area is not monitored.

Unit: 90
Acreage: 0.59
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Bittersweet	<5' & 5-30'	Yes	Foundation	Foot traffic	Trash
	Wineberry	<5' & 5-30'	Yes			
Lianas	Porcelain berry	<5' & 5-30'	Yes			
Level	Grape, wild	<5' & 5-30'				
Dry/Moist	Sumac, fragrant	<5' & 5-30'				
	Sumac, staghorn	<5' & 5-30'				

Comments:

Vineland with sumac throughout, directly behind garden unit 91. Mostly open, trees on edges being encroached by vines. Other spp.: red oak, day lily, goldenrod, CSG, Forsythia, enchanter's nightshade, black cherry, poison ivy, white snakeroot, wineberry, ox-eye daisy, aster.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 91
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Poppy	<5'	Yes	Full-crown	Garden	
	Marigold	<5'	Yes		Foot traffic	
Geophytes	Daisy, oxeye	<5'	Yes		Campfire/ party	
Level						
Dry/Moist						

Comments:

Management concern: Unit is east of northbound HHP and north of meadow unit 74. Unit is a garden and should be noted by management. Possibly old homestead site due to ornamental cherry and nearby black walnut/butternut? Specimens, and due to the topography. Unit is surrounded by red oak forest.

Unit: 92
Acreage: 0.38
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Sumac, staghorn	<5' & 5-30'		Fence	Foot traffic	
Deciduous	Dogwood spp.	<5' & 5-30'				
Phanerophytes	Ash, white	<5' & 5-30'				
Slope	Cherry, black	<5' & 5-30'				
Dry/Moist	Paulownia	<5' & 5-30'	Yes			
	Sassafras	<5'				

Comments:

Large clearings created by fallen tree that has filled in with many scrub sized saplings. Other spp.: Solomon's plume, asters, goldenrod, porcelain berry, Virginia knotweed, Joe-pye weed, spicebush, black birch saplings, red oak saplings. A well defined foot trail runs NE-SW at base of slope.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 93
Acreage: 0.47
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5'	Yes		Foot traffic	Trash
	Bittersweet	<5'	Yes		Picnic	
Lianas	Sumac, staghorn	5'-30'				
Knoll						
Dry/Moist						

Comments:

Vineland unit is surrounded by oak forest, unit 14. Large rock outcrop forms knoll, several asphalt pathways provide access, evidence of sunbathing and picnicking. Other spp.: Japanese honeysuckle, black cherry, sugar maple saplings, red oak saplings, Asiatic dayflower, poison ivy, goldenrod, asters, wild grape, bur cucumber.

Unit: 94
Acreage: 0.12
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hickory, bitternut	All			Foot traffic	
Deciduous	Mulberry spp.	5'-30'	Yes			
Hemicryptophytes						
Level						
Dry/Moist						

Comments:

Bitternut hickory woodland, the vegetation under 15' is primarily goldenrod. Unit may change from woodland to closed forest over time. Other spp.: aster, Solomon's plume, CSG, poison ivy, Virginia knotweed, wild rose, porcelain berry, wineberry, tick trefoil, bittersweet, Japanese honeysuckle, staghorn sumac, black cherry (<5'), 1 black walnut (25'), crabapple, Catalpa (25').

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 95
Acreage: 0.40
Mgmt. Concern: No

<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' & 5-30'			Foot traffic	Trash
Deciduous	Dogwood, graystem	<5'				
Chamaephytes	Wineberry	<5'	Yes			
Slope	Bittersweet	<5' & 5-30'	Yes			
Dry/Moist	Sumac, staghorn	<5' & 5-30'				
	Goldenrod	<5'				

Comments:

Dense scrubland. Difficult to determine dominance, most of shining sumac is about 15-20', but there's lots of greystem dogwood. A great deal of Japanese honeysuckle and Rubus present. Unit runs along fence overlooking HHP north. Other spp.: Norway maple, fragrant sumac, garlic mustard, Virginia creeper, Japanese honeysuckle, white snakeroot, sycamore maple, clover, dogbane, milkweed, thistle spp., CSG, white vervain, bitternut hickory, oak spp. (>5'), Solomon's plume, wild grape, day lily, path rush, burdock, Queen Anne's lace, Virginia knotweed.

Unit: 96
Acreage: 0.33
Mgmt. Concern: No

<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'		Full-crown	Campfire/ party	Trash
Deciduous	Sugar maple	>30'			Foot traffic	
Hemicryptophytes	Oak, white	>30'				
Level	Wineberry	<5'	Yes			
Dry/Moist	Goldenrod	<5'				

Comments:

Small grassy meadow bordered by sumac and oak units containing sugar maple and white oak specimen trees. Perimeter of unit is bordered with regenerating green ash, black cherry, red oak and hickory spp. Currently used for campfire-site.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 97
Acreage: 0.11
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland Deciduous Lianas Level Dry/Moist	Bittersweet	<5' & 5-30'	Yes			

Comments:

Small vineland patch between units 95 and 98. Vines growing upon black cherry tree seedlings and some graystem dogwood. Unit runs along fence, very few other species: red oak, Ailanthus, aster. Some trash.

Unit: 98
Acreage: 0.80
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland Deciduous Phanerophytes Slope Dry/Moist	Oak, red Cherry, black Dogwood, graystem Sumac, staghorn	All <5' & 5-30' <5' <5' & 5-30'			Foot traffic	

Comments:

Red oak woodland with pockets of phanerophytes where oak and cherry dominate, plus lots of Rubus, blackhaw, graystem dogwood, staghorn sumac, etc. Aster dominates groundcover along with goldenrod in parts. Bittersweet growing in patches, quite a bit of sycamore maple regeneration, unit will eventually forest in. Other species: Ailanthus, white ash (>5'), Solomon's plume, goldenrod, tick trefoil, Joe-pye-weed, porcelain berry, poison ivy, white snakeroot, Virginia knotweed, avens spp., white vervain, Virginia stickweed.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 99
Acreage: 0.87
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert Deciduous Hemicryptophytes Slope Dry					Vehicle access	Parking

Comments:

Unit is toll plaza parking lot for HHP. Primarily desert-like, with vineland section bordering north fence. In association with vine border is some dumping of highway material and equipment. Scattered shade trees include pin oak, red oak, black cherry, ash, white birch, mulberry and Sassafras within fenced lot on lawn. Other spp.: mugwort, Ailanthus, garlic mustard, wild grape, Asiatic dayflower, poison ivy, and wineberry.

Unit: 100
Acreage: 0.68
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland Deciduous Hemicryptophytes Level Moist	Locust, black Mulberry spp. Cherry, black	All All <5' & 5-30'	Yes Yes		Foot traffic Campfire/ party	Fire Trash

Comments:

Woodland near water's edge (Spuyten Duyvil), easily accessible as seen by trash and vandalism. Other spp.: wild rose, Japanese honeysuckle, mugwort, poison ivy, Virginia knotweed, Asiatic dayflower, wineberry, Asters, CSG, spicebush, hawthorn, black cherry, Norway maple.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 101
Acreage: 1.29
Mgmt. Concern: No

<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'				
Deciduous	Basswood, American	>30' & 5-30'				
Chamaephytes	Sugar maple	>30' & 5-30'				
Slope	Spicebush	5'-30'				
Moist						

Comments:

Large red oak canopy with predominantly spicebush understory. A diverse unit on sloped terrain, contains many other spp.: large tulip trees, basswood, mulberry, American hop hornbeam, black birch, elm, black locust, Paulownia, bitternut hickory, sugar maple, American beech, hackberry, dogwood, Eastern hemlock, mapleleaf viburnum, Virginia knotweed, Asters, wineberry, porcelainberry, bittersweet, motherwort, mugwort, Japanese honeysuckle, witch hazel, mountain laurel. The soil is very rich and moist, natural springs border the unit.

Unit: 102
Acreage: 0.75
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Sugar maple	All		Indian Cave	Foot traffic	Erosion
Deciduous	Oak, red	All			Campfire/ party	Soil compaction
Hemipterophytes	Tulip tree	All				Graffiti
Slope						
Moist						

Comments:

Unit located on steep slope with many large rock outcrops, which are a great attraction, perhaps a cause of poor soil stability. Management concern: soil erosion is a major problem and should be alleviated. Maple appears to be restricted to the middle section of the slope. Other species: white ash, hickory spp., tulip tree, Sassafras, black birch, red maple, dogwood spp., poison ivy, aster spp., maple leaf viburnum, spice bush, Solomon's plume, goldenrod, and Virginia creeper.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 103
Acreage: 0.43
Mgmt. Concern: Yes

<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'		Shrpk. Rock	Foot traffic	Erosion
Deciduous	Tulip tree	>30'			Vehicle access	Soil compaction
Level	Oak, white	5'-30'				Trash
Moist						

Comments:

Small triangle near historic rock and section with concrete electric box. Other spp.: great ragweed, Virginia knotweed, pink lady's thumb, Asiatic dayflower, mugwort, lamb's quarters, burdock, CSG, garlic mustard, English ivy, Clearweed. MC: Eyesore of unmowed weeds, unit has much more aesthetic potential. Compaction and soil erosion similar to unit 102 maple unit is evident near drain structure and foundation.

Unit: 104
Acreage: 11.87
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Tulip tree	>30' & 5-30'			Foot traffic	Erosion
Deciduous	Oak, red	<5' & >30'				Trash
Chamaephytes	Chestnut oak	>30' & 5-30'				Fire
Slope	Red maple	all				
Moist	Black birch	>30' & 5-30'				
	Spicebush	5-30'				

Comments:

Unit located in a valley, soil is rich and moist, forest is made of large tulip trees (avg. 30" dbh.) Unit borders Indian caves. Other spp.: Sassafras, bitternut hickory, hackberry, mulberry, black cherry, Norway and sycamore maple, white ash, arrowwood, jewelweed, Virginia creeper and knotweed, Aster, goldenrod, Solomon's plume, Rubus, mapleleaf viburnum, garlic mustard. MC: Overstorey shade and lack of adequate groundcover, therefore much exposed topsoil that washes away into drainage ditches throughout unit.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 105
Acreage: 0.12
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5'	Yes		Foot traffic	Trash
Lianas	Bittersweet	<5'	Yes			
Level						
Surface water						

Comments:

Area surrounding natural fresh water spring "Cold Spring" entirely vine covered. Other spp.: CSG, jewelweed, pink lady's thumb, Japanese knotweed, mugwort, poison ivy, mulberry, clearweed. Management concern: If unchecked, vines may encroach onto native vegetation and possibly affect the ecology and plant relationships and habitat of surrounding forest.

Unit: 106
Acreage: 1.64
Mgmt. Concern: Yes

<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			Foot traffic	Trash
Deciduous	Black birch	>30' & 5-30'			Horses	
Chamaephytes	Red maple	All			Vehicle access	
Slope	Euonymus spp.	<5' & 5-30'	Yes			
Dry/Moist	Barberry	<5'	Yes			

Comments:

Sloped unit with erosion problems as evidence by a prior unsuccessful erosion control project (1970's heavy duty cribbing and ornamental plantings). Area is used by children as "playground" during rugby games. Unlike surrounding units, soil does not appear moist / rich. Other spp.: Sassafras, basswood, hawthorn, black cherry, mulberry, Ilex, sweet pepperbush, privet, mountain laurel, spicebush, aster, Eastern hemlock. MC: Soil stabilizing groundcovers should be planted and possibly a carefully planned and executed removal of existing cribbing.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 107
Acreage: 1.48
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Oak, chestnut	All			Vagabond	Soil compaction
Deciduous	Red maple	All			Foot traffic	Fire
Chamaephytes	Oak, red	All				Trash
Slope	Sassafras	All				
Dry/Moist	Cherry, black	5'-30'				
	Dogwood spp.	5-30'				

Comments:

Chestnut oak unit surrounding unit 108. Soil is compacted and in places eroded. Definite lack of understory/groundcover. Understory present is primarily sapling trees or shrub species. Large glacial erratics in unit. Homeless person seen sleeping under rock overhang. Other spp.: witch hazel, mapleleaf viburnum, Vaccinium spp., asters.

Unit: 108
Acreage: 0.25
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert	Cool season grass	<5'			Foot traffic	Soil compaction
Hemicryptophytes					Picnic	Bkn. Glass
Level					Campfire/ party	
Dry						

Comments:

Unit is open area of heavily compacted soil with some CSG and many glacial erratics and rock outcrops. This area provides an excellent vista including Broadway bridge. Surrounded by closed forest units 14 and 107. People are drawn to this site for the view and picnics, many broken glass bottles throughout and graffiti on rocks. Other spp.: moss, black cherry, chestnut oak.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 109
Acreage: 1.53
Mgmt. Concern: Yes

<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'		Potholes	Foot traffic	Trash
Deciduous	Hickory, bitternut	>30'				
Chamaephytes	Hickory spp.	<5' & >30'				
Slope	Ash, white	<5' & >30'				
Moist	Oak, white	>30'				
	Spicebush	<5' & 5-30'				

Comments:

Forest unit with a great variety of tree species located in a valley with rich, moist soils. Tree regeneration not evident. Spicebush is dominant understory shrub with mapleleaf viburnum. Other spp.: American hornbeam, Osage orange, Paulownia, tulip tree, hackberry, asters, garlic mustard, CSG, pokeberry, Rubus, garlic mustard, wild celery, porcelain berry. Management concern: Unit should be monitored for the presence of invasive vines and tree species so they can be eliminated. Unit should be protected from disintegration.

Unit: 110
Acreage: 0.13
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5' & 5-30'	Yes		Foot traffic	Trash
Deciduous	Rubus	<5' & 5-30'				
Lianas	Spicebush	5'-30'				
Slope	Viburnum, mapleleaf	5'-30'				
Moist	Bittersweet	5'-30'	Yes			

Comments:

Small vineland unit along path to the potholes. Half of unit extends west up rocky cliff, the other half is open and near to path and drainage ditch. Other spp.: bitternut hickory, Paulownia, ash, pink lady's thumb, Virginia knotweed, wild celery. Management concern: Vines invading this quality hardwood area could easily be eliminated by mechanical means (pull with hands). Some trash and bricks are present at base of rocks.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 111
Acreage: 0.09
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Sassafras	<5' & 5-30'			Foot traffic	Compaction
Deciduous	Red maple	<5' & 5-30'				Trash
Phanerophytes	Mapleleaf viburnum	<5' & 5-30'				
Slope	Cherry, black	<5' & 5-30'				
Moist	Witch hazel	<5' & 5-30'				

Comments:

Small stand of young (3-4 yr.) sapling-size Sassafras (<15') on the edge of chestnut oak unit 107 and unit 108. This unit is similar to unit 113, but topography is sloped here. Soil is somewhat compacted and there is a lot of leaf litter. Other spp.: Japanese knotweed, asters, goldenrod.

Unit: 112
Acreage: 1.00
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Tulip tree	>30'			Foot traffic	Trash
Deciduous	Sassafras	All				Dumping
Chamaephytes	Spicebush	<5' & 5-30'				
Slope						
Moist						

Comments:

Transitional area between active recreation and sitting area at flagpole. Topography is sloped, but no evidence of major erosion problems. Rock outcrops present. Other spp.: hickory spp., black cherry, white oak, asters, Virginia knotweed, pokeweed, white snakeroot. Management concern: Due to the buffer zone role between forest area and high use areas. Currently has trashy appearance due to dumping of leaves and brush by Park's Department personnel.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 113
Acreage: 0.13
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Sassafras	<5' & 5-30'			Foot traffic	Trash
Deciduous	Cherry, black	<5' & 5-30'				
Hemicryptophytes	Oak, red	<5' & 5-30'				
Level						
Dry/Moist						

Comments:

Small unit comprised almost entirely of Sassafras, not more than 4 yrs. old (on photo #17 unit appears void of vegetation). Unit is bounded on west by red oaks and east by rock outcropping that overlooks Seaman Avenue playground. Other spp.: CSG, wild bean, butter and eggs, goldenrod, little bluestem, white snakeroot, asters, mulberry saplings.

Unit: 114
Acreage: 0.66
Mgmt. Concern: No

<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'			Picnic	Trash
Deciduous	Cherry, black	<5' & 5-30'			Foot traffic	Vandalism
Hemicryptophytes	Cool season grass	<5'				
Level	Oak, white	All				
Dry/Moist	Ash spp.	<5' & 5-30'				
	Hickory spp.	>30'&<5'				

Comments:

Open unit with scattered red oak overstory. Groundcover almost exclusively CSG. Lots of trash and a heap of asphalt. Glacial erratics present. Other spp.: asters, Solomon's plume, goldenrod, Rubus, wild bean, white snakeroot, mugwort, porcelain berry, milkweed, moss, bittersweet, basswood, Sassafras, white ash, mapleleaf viburnum, arrowwood.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 115
Acreage: 0.28
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert Deciduous Hemicryptophytes Slope Dry						

Comments:

Rock outcrop with vista of Seaman Avenue playground and the Bronx, surrounded by forest. Other spp.: little bluestem, CSG, red oak, Sassafras, black cherry, moss, nettle, Rubus mugwort. MC: Maintain vista by pruning trees, remove graffiti from rocks.

Unit: 116
Acreage: 0.95
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Hemicryptophytes Slope Dry/Moist	Sassafras Cherry, black Ailanthus Hickory spp.	All All >30' & 5-30' >30'	Yes		Foot traffic	Erosion Compaction Trash

Comments:

Disturbed unit between forest and Seaman/Payson Ave. buildings used as dog walk area. Rock outcrops on slope and large hole (15'x15') just south of unit 114. The northwest section of unit has a large amount of nettles. Soils probably low in fertility as indicated by healthy moss growth. Erosion and soil compaction along with high use and abuse problems. Other spp.: asters, white snakeroot, goldenrod. Access to areas prone to erosion, i.e. slopes.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 117
Acreage: 6.20
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Sycamore maple	All	Yes	Full-crown	Foot traffic	Erosion
Deciduous	Ash spp.	>30'		Pipes		Dumping
Hemicryptophytes	Mulberry	All	Yes			Trash
Slope						
Dry/Moist						

Comments:

Large forest unit along Dyckman Street extending north between units 53 and 54. Footpaths and erosion throughout. Ash dieback evident. Other spp.: black cherry, red oak, rose of Sharon, dogwood, Vinca, garlic mustard, poison ivy, asters, CSG, wild grape, porcelain berry, white snakeroot, enchanter's nightshade, Virginia knotweed, Virginia creeper, tulip tree, hackberry (<5'), white oak, mock orange, day lily, spicebush, ivy. MC: Dense shade resulting in sparse groundcover, and major soil erosion and compaction at Payson Avenue.

Unit: 118
Acreage: 0.09
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert					Foot traffic	
Hemicryptophytes						
Level						
Dry						

Comments:

Asphalt intersection of several paths, with painted lines, perhaps some type of playing court? Patches of vegetation in cracks. Other spp.: CSG, wild bean, great ragweed.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 119
Acreage: 0.66
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Ash spp.	All		Exotics	Foot traffic	
Deciduous	Sassafras	All				
Hemicryptophytes	Hickory spp.	>30'				
Slope	Cherry, black	All				
Dry/Moist	Sycamore maple	<5' & 5-30'	Yes			

Comments:

Soils appear stable, no evidence of overuse, possibly old house site (presence of yucca, privet and day lily). Other spp.: Japanese honeysuckle, Joe-pye weed, Virginia knotweed, Asters, goldenrod, staghorn sumac, red oak (5-30') and white oak saplings. MC: Due to large amount of sycamore maple regeneration and lack of quality hardwood spp. Ash dieback evident with eventual sycamore maple take over. Wisteria vines may pose a threat to vigor and quality of this and surrounding units.

Unit: 120
Acreage: 0.13
Mgmt. Concern: Yes

<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'			Campfire/ party	Fire
	Wild bean	<5'			Picnic	Trash
Hemicryptophytes	Pink lady's thumb	<5'			Foot traffic	
Level	Mugwort	<5'	Yes			
Dry/Moist	Virginia knotweed	<5'				

Comments:

Unique small lawn area (85x85') bounded by red oak, tulip tree and hickory spp. Other spp.: asters, goldenrod. MC: Groundcover plants may be encroaching on CSG and may eventually eliminate the open nature of this space. Unit obviously used throughout the year for picnic, campfire, and beer drinking. Unit located to north of intersection of Payson and Seaman Avenues.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 121
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5'	Yes		Foot traffic	Fire
Deciduous	Bittersweet	<5'	Yes			Trash
Lianas	Wild grape	<5'				
Level	Wisteria	<5'	Yes			
Dry/Moist	Rubus	<5'				
	Poison ivy	<5'				

Comments:

Other spp.: sycamore maple (30', <5'), black oak (5-30' & <5'), Sassafras (>5') bitternut hickory (5-30'), black cherry (5-30'), garlic mustard, mugwort, goldenrod, Virginia knotweed, white snakeroot, day lily, large white oak (24"dbh). MC: As a vineland, unit will no doubt spread to surrounding forest units.

Unit: 122
Acreage: 0.05
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert					Foot traffic	Graffiti
					Sit. Area	Trash
Hemicryptophytes						
Slope						
Dry						

Comments:

Rock outcrop above Payson Avenue. Other spp.: asters, Asiatic dayflower, Virginia creeper, porcelain berry, CSG, Ailanthus, Sassafras.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 123
Acreage: 1.72
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Cherry, black	All			Foot traffic	Erosion
Deciduous	Oak, red	All				Lg. Hole
Hemicryptophytes	Sassafras	All				
Slope	Sycamore maple	All	Yes			
Dry/Moist						

Comments:

Unit is interrupted by vineland unit and appears to be three separate units. Unit is on hillside above Payson Avenue sitting area. Other spp.: goldenrod, Asters, mugwort, CSG, Virginia knotweed, pokeberry, Rose spp., catbrier, Japanese honeysuckle, black locust, white ash, dogwood spp.

Unit: 124
Acreage: 1.05
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Catbrier	<5' & 5-30'		Full-crown	Hut	Trash
Deciduous	Japanese Honeysuckle	<5' & 5-30'	Yes		Foot traffic	Vandalism
Lianas	Wineberry	<5' & 5-30'	Yes			Compaction
Slope	Porcelain berry	<5' & 5-30'	Yes			
Dry/Moist	Bittersweet	<5' & 5-30'	Yes			
	Rose	<5' & 5-30'				

Comments:

Ash dieback evident, vines encroach in adjacent trees and cover steps. Many rock outcrops and holes dug in the hillside with lots of compaction surrounding. Other spp.: Norway and sycamore maple, black cherry, Sassafras, red oak (<5'), Rubus, ragweed, pokeweed, enchanter's nightshade, garlic mustard, wild grape, wild lettuce, mulberry, Asiatic, dayflower, CSG, Virginia knotweed, Asters, goldenrod. MC: Due to vines encroaching on walkways and proximity to Payson Avenue sitting area (eyesore) and invasiveness on adjacent woodlands.

Inwood Hill Park Entitation Unit Descriptions, Surveyed March, 1989

Unit: 125
Acreage: 1.03
Mgmt. Concern: No

<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'			Foot traffic	Dead ashes
Deciduous	Cherry, black	<5' & 5-30'				
Chamaephytes	Ash, white	>30' & 5-30'				
Slope						
Dry/Moist						

Comments:

Large unit, ash dieback evident, but otherwise fairly healthy. Vigorous understory of black cherry, red oak, Sassafras, and white ash regeneration. Large holes in canopy from downfalls are filled with scrub-oak ash regeneration (5-30') and bitternut hickory. Oaks have fruiting fungi bodies indicating low vigor. Other spp.: bitternut hickory spp., dogwood spp., mulberry, day lily, goldenrod, porcelain berry, Rubus and asters.

Unit: 126
Acreage: 0.04
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert					Sit. Area	
Level						
Dry						

Comments:

Sitting area on Payson Avenue. Semi-circle of benches with pavement underneath.

APPENDIX: Glossary

Many of these definitions are adapted from Marge Garguillo's unpublished *Plants of New York City Natural Areas: An ecological manual* (2005).

Chamaephyte: Mature branch or shoot system remaining perennially less than or equal to 100in above ground. Buds are produced on aerial branches close to the soil. (e.g. shrubs)

Closed forest: An area formed by trees at least 15 feet tall with interlocking crowns and at least 80% canopy closure.

Competition: The ability of one plant to overwhelm another plant by shading it out or otherwise overwhelming it.

Deciduous: Majority of trees shed their foliage in the autumn months.

Depression: A hollow, or low point, as compared to the surrounding topography. May or may not contain water.

Dominant: The most abundant plants in a particular plant community. A **codominant** plant is about equally as abundant as the dominant species.

Exotic: A species that does not naturally inhabit a specific area. An exotic plant may or may not be invasive where it is introduced.

Exotic planting: A gardened area where non-native species (e.g. privet, periwinkle) are tended.

Full-crown tree: Initially open-grown and free of competition: currently very large with a dominating crown.

Geophyte: Plants with buds or shoots surviving below the ground (rhizomes, bulbs, stem tubers, root tubers.)

Graminoid: Grasses and grass-like plants.

Hedgerow: Evidence of trees or shrubs planted in line i.e., maple or privet along road or path.

Hemicryptophyte: Shoots die back to ground level.

Herb: Plants without woody tissues that die back to the ground in the winter. This classification is usually applied to broad-leaved plants rather than grasses, but includes grasses for the purpose of entitation.

Herbaceous community: An area where grasses, grasslike plants, and herbaceous plants are predominant. Woody plants may be sparingly present, but cover less than 30% of area.

Intertidal Communities: Substrate is exposed and flooded by tides, includes the associated splash zone.

Invasive plant: A plant species that grows and reproduces without constraint, crowding or shading out other plants. The term is usually applied to plants that are not native to the given region. Invasiveness in a plant that is native to the region is rare and probably caused by unusual circumstances.

Knoll: A small isolated hillock.

Landfill: Topography altered by previous filling or dumping: i.e., while building a road or altering a wetland area. Look for rubble on the soil surface or sudden changes in grade.

Lianas: Vascular plants needing support, rooting in the ground permanently (vines).

Native plant: Plants that were growing in this region before Europeans came to North America. Native plants are adapted to the climate and soils of their region. They have relationships with birds, mammals, insects, and fungi and are integrated into the ecology of the region. New York City's native plants come from seed that spread northward after the last glaciers melted thousands of years ago.

Ornamental: Plants used as horticultural specimens in gardens or developed parks, not intended to reproduce or be part of a natural plant community. Very often they are non-native plants.

Phanerophyte: Plants that grow taller than 100 in. or whose shoots do not die back periodically to that height (e.g., trees).

Scrub: A shrubland or thicket, mainly composed of woody plants 1.5 to 15 feet tall.

Slope: Ground that forms a natural or artificial incline.

Soil compaction: Increasing soil density and decreasing porosity due to application of mechanical forces to the soil: i.e. due to vehicle, horse, or foot traffic.

Species: A group of organisms that can interbreed to produce fertile young.

Understory: Habitat below the tree canopy of a forest. The understory is a plant community of tree saplings, shrubs, herbs, graminoids, and mosses that can live in shade or part shade.

Undulating: The area has a wavy surface. Its neither a slope, a level area, or a depression, but rather a combination of all three.

Vineland: An area formed by at least 30% vines. Vines may be supported by vegetation, artificial means or ground surface. Often occurs on the forest or shrub border.

Woodland: An area formed by trees at least 15 feet tall, with most of their crowns not touching each other, but at least 30% canopy closure.