



## Zoning Resolution

THE CITY OF NEW YORK

Eric Adams, Mayor

CITY PLANNING COMMISSION

Daniel R. Garodnick, Chair

# Appendix B

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# Appendix B - Glossary

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## Part I:

Certain botanic terms referred to in the text and Part II of this Appendix are explained below:

A "tree" is any woody plant with one trunk rising out of the earth and root system, from which branches then spring, usually at some distance from the earth. A tree may be deciduous or coniferous.

A "shrub" is a woody plant that has one or more trunks rising from the same root system instead of a single trunk. These trunks or stems may or may not branch at some distance from the earth. A shrub may be deciduous or coniferous.

A "herb" is a non-woody plant with a fleshy stem which dies back to the earth level at the end of the growing season. It may be annual, biennial, or perennial.

A "vine" is a woody plant whose trunk or stem must be supported by the general environment or other plants. It is unable to stand on its own.

A "grass" is a family of herbaceous plants, rarely woody, with hollow round stems.

An "annual" is a plant which completes its life cycle in the space of one growing season, that is, it goes from seed to full plant and flower and sets seed in a single season.

A "biannual" is a plant which requires two years to grow from seed to mature plant capable of producing seed and then dies.

A "perennial" is a plant which lives more than one or two years and usually produces seeds for more than a few years.

A "fern" is a perennial, flowerless plant which reproduces by spores.

An "association" is a grouping of many plant species over a wide area sharing a common habitat and similar geographic conditions.

A "community" is a series of plants, animals, algae, fungi, grasses, trees, shrubs, herbs and other life forms which characteristically grow and live together in harmony, creating a balanced biological environment.

## Part II:

Description of Natural Features defined in Section 105-10 (NATURAL FEATURES):

### (a) Geologic features

#### (1) Rock outcrop

A rock outcrop shows the type of rock underlying the area, the results of surface abrasion by glacier, waterborne or windborne matter, or the results of chemical or temperature weathering.

#### (2) Geologic deposits

Geologic deposits include:

Soils of different origins such as loess and mineral deposits such as artinite, garnets, zircon, topaz, beryl, tourmaline, algite, tremolite, serpentine, muscovite, amethyst, peridot, jadeite, geodes and other elements of the Precambrian, Ordovician, Triassic, Cretaceous, Pleistocene and Holocene geology found in New York City.

An erratic boulder is a relatively large mass of rock which has been moved significant distances from its parent rock to be left amidst a geologic area which has a different history and origin than the parent.

(b) Topographic features

(1) #Steep slope#

A #steep slope# includes ground formation with sharp inclines such as hills and palisades.

(2) Existing natural topography

Existing natural topography includes terrain other than #steep slope# areas.

(3) #Topsoil#

#Topsoil# includes all of the A horizon, specifically, from top to bottom: the A1 litter layer where organic material, such as leaves and animal matter accumulate; the A2 fermentation layer where organic material is decomposed by fermentation, fungi, bacteria and soil organisms; the A3 humic layer where humus, resulting from the decomposition process, lies; and the B1 mixing layer where the humic substances become mixed with mineral matter.

(c) Aquatic features

(1) Laminarian zone

(i) Rock bottom

Characteristic plants:

Green algae:

*Chaetomorpha melagonium*

*Cladophora gracilis*

*Codium fragile*

Brown algae:

*Asophyllum nodosum*

*Sargassum filipendula*

*Agarum cribrosum*

Red algae:

*Rhodomenia palmata* (Dulse)

*Ceramium robrum*

*Ahnfeltia plicata*

*Polysiphonia lanosa*

*Seirospora griffithsiana*

*Callithamnion corymbosum*

Characteristic animals:

*Diadumene leucolena* - Pallid sea anemone

*Ceriantheopsis americanus* - Worm sea anemone

*Astrangia danae* - Star coral

*Crisia denticulata* - Fringed moss animal

*Bugula turrata* - Turreted moss animal

*Membranipora monostachys* - Sea mat

*Lepas fasticularis* - Northern sea barnacle

*Balanus balanoides* - Rock barnacle

*Littorina littorea* - Common periwinkle

*Littorina obtusata* - Smooth periwinkle

*Littorina irrorata* - Salt marsh periwinkle

*Crepidula fornicata* - Common boatshell

*Polinices dublicatus* - Shark eye

*Urosalpinx cinera* - Oyster drill

*Mytilus edulus* - Blue mussel

*Modiolus demissus* - Ribbed mussel

*Crassostrea virginica* - Virginia oyster

*Petricola pholadiformis* - False angelwing

(ii) Mud or sand bottom

Characteristic plants:

Green algae:

*Chaetomorpha melagonium*

*Cladophora gracilis*

Brown algae:

*Sargassum filipendula*

*Laminaria agardhi*

*Agarum cribosum*

Red algae:

*Rhodomenia palmata* (Dulse)

*Cystoclonium purpureum*

*Ahnefeltia plicata*

*Polysiphonia lanosa*

*Seirospora griffithsiana*

*Callithamnion corymbosum*

Characteristic animals:

*Ceriantheopsis americanus* - Worm sea anemone

*Littorina littorea* - Common periwinkle

*Littorina obtusata* - Smooth periwinkle

*Littorina irrorata* - Salt march periwinkle

*Crepidula fornicata* - Common boatshell

*Polinices dublicatus* - Shark eye

*Lunatia heros* - Common moonshell

*Mytilus edulus* - Blue mussel

*Modiolus demissus* - Ribbed mussel

*Nucula proxima* - Atlantic nut clam

*Aequipecten irradians* - Bay scallop

*Mercenaria mercenaria* - Northern quahog

*Macoma baltica* - Baltic macoma

*Tagelus plebius* - Stout razor

*Mya arenaria* - Soft shell clam

Corbulua contracta - Common basket clam

(2) Beach

Characteristic saltwater beach animals:

Beach flea:

*Orchestia agilis*

*Talitrus longicornis*

Sandworms or Bristleworms:

*Nereis virens*

*Nereis limbata*

*Nephtys picata*

*Arabella opalina*

*Lumbriconereis tenuis*

*Glycera americana*

*Nerine agilis*

*Cirratulus grandis*

*Cistenides gouldii*

*Clymenella torquata*

*Maldane elongate*

Ghost shrimp:

*Penaeus brasiliensis*

*Laldemonetes vulgaris*

*Crangon vulgaris*

Ghost crab, Horseshoe crab, Green crab:

*Ocypoda arenaria*

*Limulus polyphemus*

*Carcindes moenas*

Blue crab:

*Callinectes sapidus*

*Callinectes hastatus*

Lady crab, Sand crab, Rock crab:

*Ovalipes ocellatus*

*Platyonichus ocellatus*

*Cancer irroratus*

Fiddler crabs:

*UCA minax*

*Gelasimus minax*

*UCA pubnax*

*Gelasimus pugnax*

*UCA pugilator*

*Gelasimus pugilator*

*Pinnotheres maculatum* - Oyster crab

*Venus mercenaria* - Hardshell clam

*Mya arenaria* - Softshell clam

*Ensis directus* - Razor clam

*Tagelus gibbus* - Clam

*Psilaster florae* - Starfish

*Amphiura squamata* - Brittlestars

*Echinarachniscus parma* - Sand dollar

Snails:

*Haminae solitaria*

*Scala lineata*

*Scala multistriata*

*Polynices heros*

*Polynices triseriata*

*Polynices duplicata*

*Crepidula fornicata*

*Crepidula plana*

*Littorina littorea* (Periwinkle)

*Urosalpinx linera* (Oyster drill)

*Eupleura caudata*

*Columbella avara*

*Columbella similis*

*Columbella anachis*

*Columbella astyris*

*Columbella lunata*

*Nassa trivittata*

*Nassa obsoleta*

(3) Tidal wetland or saltwater littoral zone

(i) Rock bottom

Characteristic plants:

Blue-green algae:

*Callothrix* spp.

*Rivularia atra*

Green algae:

*Ulothrix flacca*

*Enteromorpha intestinalis*

*Ulva lactuca* (Sea lettuce)

*Monostroma oxyspermum*

*Codium fragile*

Brown algae:

*Fucus vesiculosus*

*Fucus vesiculosus* var *spiralis*

*Fucus spiralis*

*Ascophyllum nodosum*



Red algae:

*Hildenbrandia prototypus*

*Agardhiella tenera*

*Chondrus crispus* (Irish moss)

*Bangia fuscopurpurea*

*Porphyra umbilicalis*

*Ceratium rubrum*

*Ahnfeltia plicata*

*Polysiphonis lanosa*

*Scirospora griffithsiana*

*Callithamnion corymbosum*

Characteristic animals:

*Lepas fascicularis* - Northern sea barnacle

*Balanus balanoides* - Rock barnacle

*Littorina littorea* - Common periwinkle

*Littorina obtusata* - Smooth periwinkle

*Littorina saxatilis* - Rough periwinkle

*Littorina irrorata* - Salt marsh periwinkle

*Crepidula fornicata* - Common boatshell

(ii) Mud or sand bottom

Characteristic plants:

Blue-green algae:

*Callothrix* spp.

*Lyngbya majuscula*

*Rivularia atra* (Mermaids hair)

*Rhizoslonium fragile*

Green algae:

*Enteromorpha linza*

*Ulva lactuca* (Sea lettuce)

*Monostroma oxyspermum*

*Codium fragile*

Red Algae:

*Chondrus crispus* (Irish moss)

*Bangia fuscopurpurea*

*Porphyra umbilicalis*

*Ceramium rubrum*

*Ahnfeltia plicata*

*Polysiphonia lanosa*

*Scirospora griffithsiana*

*Callithamnion corymbosum*

*Baccharis halmilifolia* - Groundsel tree

*Distichlis spicata* - Alkali grass

*Hybiscus palustris* - Marsh mallow

*Iva frutescens* - Marsh elder

*Juncus gerardi* - Black grass

*Limonium carolinianum* - Sea lavender

*Phragmites communis* - Reed

*Ruppia maritima* - Wigdeon grass

*Salicornia* spp. - Perennial saltwort

*Spartina alternifolia* - Smooth cordgrass

*Spartina cynosuroides* - Salt reedgrass

*Spartina patens* - Salt hay

*Spartina pectinata* - Freshwater cordgrass

*Zostera pectinata* - Eelgrass

Characteristic animals:

*Ceriantheopsis americanus* - Worm sea anemone

*Littorina littorea* - Common periwinkle

*Littorina saxatilis* - Rough periwinkle

*Littorina littorea* - Salt marsh periwinkle

(4) Swamp

Characteristic plants:

*Acer rubrum* - Red maple

*Acer* - Silver maple

*Alnus* spp. - Alder

*Arisaema triphyllum* - Jack in the pulpit

*Cephalanthus occidentalis* - Buttonbush

*Cornus florida* - Dogwood

*Epilobium hirsutum* - Willowherb

*Hibiscus moscheutos* - Rosemallow

*Salix* spp. - Willow

*Smilax glauca* - Catbrier

*Smilax rotundifolia* - Bulbrier

*Quercus palustris* - Pin oak

(5) Marsh

Characteristic plants:

*Acnida* - Waterhemp

*Acorus calamus* - Sweetflag

*Cyperus* spp. - Chufa

*Echinochola* - Wild millets

*Eleocharis* - Spikerushes

*Impatiens pallida* - Jewelweed

*Leersia orysoides* - Rise cutgrass

*Phragmites communis* - Reeds

*Pontederia cordata* - Pickerelweed

*Polygonum* - Smartweed

*Sagittaria* - Arrowhead

*Scirpus cyperinus* - Sedge bullrush

*Typha latifolia* - Cattails

*Zizania aquatica* - Wild rice

(6) Bog

Characteristic plants:

*Andromeda folifolia* - Bog rosemary

*Arethusa bulbosa* - Swamp pink

*Caldopogon pulcherlus* - Grass pink

*Chamaedaphne calyculata* - Leatherleaf,  
marsh cinquefoil

*Drosera rotundifolia* - Sundew plant

*Eriophorum virginicum* - Cottongrass

*Iris versicolor* - Blue flag, wild iris

*Ledum groenlandicum* - Labrador tea

*Menyanthes trifoliata* - Bogbean

*Myrica gale* - Sweetgale

*Peltandra virginica* - Snakes-mouth orchid

*Rhododendron viscosum* - Swamp azalea

*Sarracenia purpurea* - Pitcher plant

*Solidago uliginosa* - Bog goldenrod

*Sphagnum* - Sphagnum moss

*Utricularia conuta* - Horned bladderwort

*Vaccinium macrocarpon* - American cranberry

*Vaccinium oxycoccus* - Dwarf cranberry

(7) Meadow

Characteristic plants:

*Amelanchier canadensis* - Shadbush

*Apios americana* - Groundnut

*Lilium supurbum* - Turks cap lily

*Impatiens pallida* - Jewelreed

*Lysmachia terrestris* - Swamp-candles

*Lythrum calicaria* - Spiked loosetrife

*Sambucus canadensis* - Elderberry

*Spirea tomentosa* - Steeplebush

(8) Creek, stream or brook

Creeks, streams and brooks are often classified by the rate at which the water flows, a fast stream being a water flow of about two feet per second. Creeks, streams and brooks are valuable for their drainage function, the fish they contain both as a source of sport and for the other forms of life which relate to the animal and plant life dependent upon the stream.

(i) Fast creek, stream or brook

Characteristic plants:

*Fontalis* - Water moss

*Ulothrix* - Algae

*Diatoma* - Diatoms

*Gomphonema*

Characteristic animals:

Caddisflies:

Trichoptera

Phyganea

Rhyacophila

Philopotamidae

Hydropsychidae

Hydropsyche

Pharyganeidae

Limnephilidae

Leptocerus

Leptocella

Anthrpsodes

Oecetis

Brachycentridae

Helicopsychidae

Simulium - Blackfly

Ple coptera - Stonefly

Tipulidae - Cranefly

Neuroptera - Dobsonfly

Ephemeroptera - Mayfly

Osonychia

Percina caprodes - Log perch

Salvelinus fortinalis - Brook trout

Salmo gairdneri - Steelhead trout

Salmo trutta - Brown trout

Salmo salar - Atlantic salmon

(ii) Slow creek, stream or brook

Characteristic plants are the same as those in a lake or pond.

Characteristic animals:

Dragon Fly:

Anisoptera

Iodonata

Water striders:

Gerridae

Hempitera

Odonata

Zygoptera - Damselflies

*Orixidae* - Waterboatmen

*Hexagenia* - Mayfly

*Sphaerium* - Fingernail clam

*Semotilus atromaculatus* - Creek chub

*Ictalurus punctatus* - Channel catfish

*Ictalurus catus* - White catfish

*Ictalurus melas* - Black catfish

*Cyprinus carpio* - Carp

*Esox lucius* - Northern pike

*Esox americanus* - Little pickerel

*Esox niger* - Chain pickerel

*Roccus americana* - White perch

*Roccus saxatilis* - Striped bass

(9) Lake or pond

Characteristic plants:

*Ceratophyllum demersum* - Coontail

Duckweeds:

*Lemna*

*Spirodella*

*Wolffia*

*Wolffella*

*Myriophyllum* - Watermillfois

*Najas* - Naiads

*Nuphar* - Cowlilies

*Nymphaea* - Waterlilies

*Potamogeton* - Pondweeds

*Vallisneria spiralis* - Wild celery

(10) Spring

Characteristic plants and animals are the same as those found in a swamp, marsh, bog, meadow, creek, stream, brook, lake or pond.

(d) Botanic environment

(1) Primary succession community area

Characteristic plants:

*Achillea millefolium* - Yarrow

*Anagallis arvensis* - Scarlet pimpernel

*Anaphalis margaritacea* - Pearly everlasting

*Antennaria plantaginifolia* - Pussy's toes

*Artemisia caudata* - Tall wormwood

*Asclepias syriaca* - Common milkweed

*Asclepias tuberosa* - Orange milkwood

*Asparagus officinalis* - Garden asparagus

*Aster ericoides* - Heath aster

*Aster linariifolius* - Stiff-leaved aster

*Brassica nigra* - Black mustard

*Chrysanthemum leucanthemum* - Ox-eye daisy

*Cichorium intybus* - Chicory

*Cirsium arvense* - Canada thistle

*Cirsium discolor* - Field thistle

*Convolvulus sepium* - Wild morning glory

*Coreopsis lanceolata* - Coreopsis

*Cytisus scoparius* - Scotch broom

*Datura stramonium* - Jimsonwee

*Daucus carota* - Queen Anne's lace

*Dianthus armeria* - Deptford jink

*Dianthus plumarius* - Garden pink

*Epilobium angustifolium* - Fireweed

*Erodium cicutarium* - Stork's bill



*Eupatorium hyssopifolium* - Hyssop-leaved boneset

*Euphorbia cyparissia* - Cypress spurge

*Fragaria virginiana* - Wild strawberries

*Gnaphalium obtusifolium* - Sweet everlasting

*Holcus lanatus* - Velvetgrass

*Hypericum gentianoides* - Pineweed

*Hypericum perforatum* - Common St. Johnswort

*Hypochoeris radicata* - Cat's ear

*Linaria canadensis* - Old-field-toadflax

*Linaria vulgaris* - Butter-and-eggs

*Lonicera japonica* - Japanese honeysuckle

*Lychnis alba* - White campion

*Matricaria matricariodes* - Pineappleweed

*Oenothera biennis* - Evening primrose

*Opuntia humifusa* - Prickly pear cactus

*Oxalis stricta* - Yellow wordsorrel

*Phytolacca americana* - Pokeweed

*Plantago lanceolata* - English plantain

*Polygonum persicaria* - Lady's thumb

*Polygonum pennsylvanicum* - Pinkweed

*Potentilla canadensis* - Old-field cinquefoil

*Potentilla recta* - Sulphur cinquefoil

*Rana unculus repens* - Creeping buttercup

*Rosa virginiana* - Virginia rose

*Rudebeckia hirta* - Black-eyed-susan

*Saponaria officinalis* - Bouncing-bet

*Sedum acre* - Stone crop

*Solanum americanum* - Black nightshade

*Solanum dulcamara* - Bitter nightshade  
*Solidago nemoralis* - Grey goldenrod  
*Solidago puberula* - Purple-stemmed goldenrod  
*Solidago tenuifolia* - Grass-leaved goldenrod  
*Spergularia rubra* - Pink sand-spurry  
*Tanacetum vulgare* - Tansy  
*Taraxicum officinale* - Dandelion  
*Trichostemma dichotomum* - Blue curls  
*Trifolium arvense* - Rabbitfoot clover  
*Verbascum thapsus* - Mullein  
*Yucca filamentosa* - Yucca

(2) Secondary succession community area

Characteristic plants of a secondary succession community area include the species found in a primary succession community area, a swamp, a meadow and the following species:

*Acer rubrum* - Red maple  
*Amelanchier canadensis* - Shadbush  
*Amelanchier obovalis* - Serviceberry  
*Betula lenta* - Black birch  
*Betula lutea* - Yellow birch  
*Betula populifolia* - Gray birch  
*Cornus florida* - Flowering dogwood  
*Larix laricina* - American larch  
*Lindera benzoin* - Spice bush  
*Picea mariana* - Black spruce  
*Pinus rigida* - Pitch pine  
*Pinus strobus* - White pine  
*Prunus serotina* - Black cherry  
*Prunus virginiana* - Choke cherry  
*Rhus copallina* - Dwarf sumac

*Rhus glabra* - Smooth sumac

*Rhus typhina* - Staghorn sumac

*Rubus* spp. - Blackberries

*Salix* spp. - Willow

*Sambucus canadensis* - Elderberry

*Smilax rotundifolia* - Bull brier

*Tilia americana* - American basswood

*Vaccinium* - Blueberry

(3) Climax community area

Characteristic plants:

*Acer rubrum* - Red maple

*Acer saccharum* - Sugar maple

*Amelanchier obovata* - Serviceberry

*Azalea* spp. - Azalea

*Betula lenta* - Sweet birch

*Betula lutea* - Yellow birch

*Betula populifolia* - Grey birch

*Carpinus caroliniana* - Ironwood

*Carya laciniata* - Shagbark hickory

*Carya glabra* - Pignut hickory

*Carya ovata* - Shagbark hickory

*Carya tomentosa* - Mockernut hickory

*Castanea dentata* - American chestnut

*Celtis occidentalis* - American hackberry

*Chamaecyparis thyoides* - Atlantic white cedar

*Cornus florida* - Flowering dogwood

*Diospyros virginiana* - Persimmon

*Fagus grandifolia* - American beech

*Fraxinus americana* - White ash

*Gaylussacia* - Huckleberry

*Hamamelis virginiana* - Witch hazel

*Ilex opaca* - Holly

*Juglans cinera* - Butternut

*Juglans nigra* - Black walnut

*Juniperus virginiana* - Red cedar

*Kalmia latifolia* - Laurel

*Larix laricina* - Larch

*Liquidambar styraciflua* - Sweet gum

*Liriodendron tulipifera* - Tulip-tree, Yellow poplar

*Nyssa sylvatica* - Sour gum

*Ostrya virginiana* - Hop hornbean

*Picea mariana* - Black spruce

*Pinus rigida* - Pitch pine

*Pinus strobus* - White pine

*Prunus serotina* - Black cherry

*Prunus virginiana* - Choke cherry

*Quercus prinus* - Chestnut oak

*Quercus alba* - White oak

*Quercus bicolor* - Swamp oak

*Quercus coccinea* - Scarlet oak

*Quercus pallustris* - Pin oak

*Quercus rubra* - Red oak

*Quercus velutina* - Black oak

*Sambucus canadensis* - Elderberry

*Sassafras variifolium* - Sassafras

*Tilia americana* - American basswood, linden

*Tsuga canadensis* - Hemlock

*Ulmus americana* - American elm

*Vaccinium* spp. - Blueberry

(4) Dune and heathland

Characteristic plants:

*Aster undulatus* - Skydrop aster

*Ammophila Breviligulata* - Beachgrass

*Baptisia tinctoria* - Wild indigo, rattle box

*Corema couradii* - Broom crowberry

*Comptonia peregrina* - Sweetfern

*Deschampaia flexuosa* - Wavyhair grass

*Gaylussacia baccata* - Black huckleberry

*Helianthum canadense* - Frostweed

*Hieracium venosum* - Rattlesnake weed

*Hudsonia ericoides* - Golden beachheather

*Hudsonia tomentosa* - Woolly beachheather

*Hyrica pennsylvanica* - Bayberry

*Potentilla tridentata* - Three toothed cinquefoil

*Rubus* spp. - Blackberries, raspberries

*Vaccinium angustifolium* - Low sweet blueberries

(5) Wild grassland

A wild grassland exists usually on poor soils and is composed of a mixture of native grasses, such as the following:

*Dantonia spicata* - Poverty oat grass

*Andropogon virginicus* - Broomsedge

*Bromus* spp. - Bromegrass