



Virginia Creeper  
*Parthenocissus quinquefolia*



Princess Tree  
*Paulownia tomentosa*



Liverwort  
*Marchantiophyta* spp.



White Mulberry  
*Morus alba*



Common white snakeroot  
*Ageratina altissima*

PLANT SPECIES OBSERVED	
TREES	
Box elder maple	<i>Acer negundo</i>
Silver maple	<i>Acer saccharinum</i>
White mulberry	<i>Morus alba</i>
Tulip poplar	<i>Liriodendron tulipifera</i>
Empress tree	<i>Paulownia tomentosa</i>
Tree-of-heaven	<i>Ailanthus altissima</i>
Black cherry	<i>Prunus serotina</i>
American elm	<i>Ulmus americana</i>
Slippery elm	<i>Ulmus rubra</i>
American sycamore	<i>Platanus occidentalis</i> *
Black willow	<i>Salix nigra</i>
Green ash	<i>Fraxinus pensylvanica</i> *
Black walnut	<i>Juglans nigra</i> *
Black locust	<i>Robinia pseudocacia</i> *
Mimosa	<i>Albizia julibrissin</i> *
*Seedling	
SHRUBS	
False indigo bush	<i>Amorpha fruticosa</i>
Red osier dogwood	<i>Cornus sericea</i>
Allegheny blackberry	<i>Rubus allegheniensis</i>
VINES	
Virgin’s bower	<i>Clematis virginiana</i>
Virginia creeper	<i>Parthenocissus quinquefolia</i>
Poison ivy	<i>Toxicodendron radicans</i>
Japanese honeysuckle	<i>Lonicera japonica</i>
HERBACEOUS	
White snakeroot	<i>Ageratina altissima</i>
Mugwort	<i>Artemisia vulgaris</i>
Common burdock	<i>Articum minus</i>
Woolly mullein	<i>Verbascum thapsus</i>
Crown vetch	<i>Coronilla varia</i>
Dog bane	<i>Apocynum cannabinum</i>
Evening-primrose	<i>Oenothera biennis</i>
Onion	<i>Allium</i> sp.
Deertongue grass	<i>Panicum clandestinum</i>
Canada thistle	<i>Cirsium arvense</i>
Dandelion	<i>Taraxacum officinale</i>
Japanese knotweed	<i>Polygonum cuspidatum</i>
Jewelweed	<i>Impatiens capensis</i>
Periwinkle	<i>Vinca minor</i>
Queen Anne’s lace	<i>Daucus carota</i>
Hairy white aster	<i>Symphyotrichum pilosum</i>
Sedge	<i>Carex</i> sp.
Common reed	<i>Phragmites australis</i>
Common milkweed	<i>Asclepias syriaca</i>
Barren strawberry	<i>Potentilla indica</i>
PLANTS ON PIER-SIDE OF FENCE	
Red maple	<i>Acer rubrum</i>
American holly (cultivar)	<i>Ilex opaca</i>
New England aster (cv)	<i>Aster novae-angliae</i>
Foxglove beardtongue (cv)	<i>Penstemon digitalis</i>
Purple coneflower (cv)	<i>Echinacea purpurea</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Pink muhlygrass	<i>Muhlenbergia capillaris</i>

FAUNAL SPECIES OBSERVATIONS MADE ON OCTOBER 8,9, &13, 2012 BY AES				
MAMMAL				
COMMON NAME	TAXONOMIC BINOMIAL	OBSERVATION NOTES		ABUNDANCE
House mouse	<i>Mus musculus</i>	Running along north wall		1
White-footed mouse	<i>Peromyscus leucopus</i>	Nesting under debris		6
Eastern gray squirrel	<i>Sciurus carolinensis</i>	Common		10
Raccoon	<i>Procyon lotor</i>	Tracks		0
Feral cat	<i>Felis catus</i>			2
HERPETOFAUNA				
	COMMON NAME	TAXONOMIC BINOMIAL	OBSERVATION NOTES	ABUNDANCE
REPTILES	Northern brown snake	<i>Storeria d. dekayi</i>	Under cwd on pier	1
	Eastern garter snake	<i>Thamnophis s. sirtalis</i>	Locomoting in understory on pier	2
MUSSELS/ UNIONIDS				
	COMMON NAME	TAXONOMIC BINOMIAL	OBSERVATION NOTES	ABUNDANCE
NATIVE	Eastern floater	<i>Pyganodon cataracta</i>	Shells observed on shores of Pier	4
	Eastern elliptio	<i>Elliptio complanata</i>	Shells observed on shores of Pier	3
NON-NATIVE	Asiatic clam	<i>Corbicula fluminea</i>	Shells commonly observed on shores of pier	50+
	Zebra mussel	<i>Dreissena polymorpha</i>	Shells observed on shores of pier	10+
INDUSTRY RELATED	Eastern oyster/ other oysters	<i>Crassostrea virginica</i> and other <i>Ostreidae</i>	Not from native beds, likley dumped from seafood industry	25+
	Button-making shells		A large, thick clam used to make buttons, likely of Australian origin. Circular excavations in them	100+ shell fragments



Double-crested Cormorant  
*Phalacrocorax auritus*



White-throated Sparrow  
*Zonotrichia albicollis*



Eastern Garter Snake  
*Thamnophis sirtalis*



Cooper’s Hawk  
*Accipiter cooperii*



Brown Snake  
*Storeria dekayi*



Common Tern  
*Sterna hirundo*

FAUNAL SPECIES OBSERVED ON OCTOBER 8, 9, & 13, 2012 BY AES				
	COMMON NAME	TAXONOMIC BINOMIAL	OBSERVATIONAL NOTES	ABUNDANCE
WADERS AND WATERFOWL	Common loon	<i>Gavia immer</i>	Flying along river	4
	Leach's storm petrel	<i>Oceanodroma microsoma</i>	Extremely Rare. Observed along the Delaware after Hurricane Sandy (entrained by storm)	6
	Double-crested cormorant	<i>Phalacrocorax auritus</i>	Many perched on outer poles of Pier	200+
	Great blue heron	<i>Ardea herodias</i>	Along shoal on south side	1
	Canada goose	<i>Branta canadensis</i>	Numerous, on water	48
	Mallard	<i>Anas platyrhynchos</i>	Paired on the water	6
	Surf scoter	<i>Melanitta perspicillata</i>	Extremely rare. Observed along the delaware after hurricane sandy (displaced by storm)	2
RAPTORS	Black scoter	<i>Melanitta nigra</i>	Rare. Observed along the delaware after hurricane sandy	5
	Turkey vulture	<i>Cathartes aura</i>	Soaring overhead	2
	Black vulture	<i>Coragyps atratus</i>	Soaring overhead	1
	Bald eagle	<i>Haliaeetus leucocephalus</i>	Flying south along the river	1
	Cooper's hawk	<i>Accipiter cooperii</i>	Perched in box elder on site. Actively chasing passerine in meadow to the south	1
	Red-tailed hawk	<i>Buteo jamaicensis</i>	Aerial foraging	2
	Osprey	<i>Pandion haliaetus</i>	Flying south along the river	1
	Merlin	<i>Falco columbarius</i>	Chasing passerine	1
	Peregrine falcon	<i>Falco peregrinus</i>	Aerial foraging	1
	Red phalarope	<i>Phalaropus fulicaria</i>	Extremely Rare. Flock of 50 observed along the Delaware after Hurrican Sandy (displaced by storm)	50
GULLS AND SHOREBIRDS	Parasitic jaeger	<i>Stercorarius parasiticus</i>	Extremely Rare. Observed along the Delaware after Hurricane Sandy (entrained by storm)	1
	Bonaparte's gull	<i>Larus philadelphia</i>	Observed along the delaware after hurricane sandy	14
	Laughing gull	<i>Larus atricilla</i>	Observed along the delaware after hurricane sandy	3
	Ring-billed gull	<i>Larus delawarensis</i>	Many observed on all three site visits	500+
	Herring gull	<i>Larus argentatus</i>	Foraging, perched on water, and flying over river	16
	Lesser black-back gull	<i>Larus fuscus</i>	Perched on pier to the south	1
	Great black-backed gull	<i>Larus maritimus</i>	Foraging, perched on water, and flying over river	7
	Caspian tern	<i>Sterna caspia</i>	Foraging, southbound	1
	Common tern	<i>Sterna hirundo</i>	Perched on posts at eage of island. Foraging over river	24
	Sooty tern	<i>Sterna fuscata</i>	Extremely Rare. Observed along the Delaware after Hurricane Sandy (entrained by storm)	1
PASSERINE/ SONGBIRDS	Mourning dove	<i>Zenaida macroura</i>	Common	9
	Rock pigeon	<i>Columba livia</i>	Flocking overhead	38
	Chimney swift	<i>Chaetura pelagica</i>	Few foraging together drifting south	6
	Ruby-throated hummingbird	<i>Archilochus colubris</i>	On pier	1
	Belted kingfisher	<i>Ceryle alcyon</i>	Calling south of pier	1
	Red-bellied woodpecker	<i>Melanerpes carolinus</i>	Foraging on pier	1
	Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Foraging on pier	1
	Downy woodpecker	<i>Picoides pubescens</i>	Foraging on pier	2
	Northern flicker	<i>Colaptes auratus</i>	Foraging on pier	1
	Eastern wood-pewee	<i>Contopus virens</i>	In migration	1
	Eatern phoebe	<i>Sayornis phoebe</i>	In migration	9
	Blue jay	<i>Cyanocitta cristata</i>	Family group	5
	American crow	<i>Corvus brachyrhynchos</i>	Common	20+
	Fish crow	<i>Corvus ossifragus</i>	Flying north along river	3
	Northern rough-winged swallow	<i>Stelgyopteryx serripennis</i>	Foraging	4
	Tree swallow	<i>Tachycineta bicolor</i>	Foraging	46
	Tufted titmouse	<i>Baeolophus bicolor</i>	Foraging on pier	5
	Black-capped chickadee	<i>Poecile atricapilla</i>	Foraging on pier	6
	Red-breasted nuthatch	<i>Sitta canadensis</i>	Foraging on pier	3
	White-breasted nuthatch	<i>Sitta carolinensis</i>	Foraging on pier	3
	Brown creeper	<i>Certhia americana</i>	Foraging on pier	1
	Carolina wren	<i>Thryothorus ludovicianus</i>	Foraging on pier	2
	Golden-crowned kinglet	<i>Regulus satrapa</i>	Foraging on pier	18
	Ruby-crowned kinglet	<i>Regulus calendula</i>	Foraging on pier	4
	Eastern bluebird	<i>Sialis sialis</i>	Foraging on pier	2
	American robin	<i>Turdus migratorius</i>	Foraging on pier	20+
	Swainson's thrush	<i>Catharus ustulatus</i>	Foraging on pier	1
	Gray catbird	<i>Dumetella carolinensis</i>	Foraging on pier	2
	Northern mockingbird	<i>Mimus polyglottos</i>	Foraging on pier	1
	European starling	<i>Sturnus vulgaris</i>	Flocking	40+
	Cedar waxwing	<i>Bombycilla cedrorum</i>	Foraging on pier	12
	Orange-crowned warbler	<i>Oreothlypis celata</i>	Foraging on pier	1
	Common yellowthroat	<i>Geothlypis trichas</i>	Foraging/chip noting on pier south of pier 53	1
	Northern cardinal	<i>Cardinalis cardinalis</i>	2 Female, 1 male	3
	White-throated sparrow	<i>Zonotrichia albicollis</i>	Flocking migrants. On pier, in recent plantings at base, and meadow to the south	100+
	Song sparrow	<i>Melospiza melodia</i>	Numerous	18
	Swamp sparrow	<i>Melospiza georgiana</i>	In meadow to the south	5
	Dark-eyed junco	<i>Junco hyemalis</i>	Migrant flock	~10
	Red-winged blackbird	<i>Agelaius phoeniceus</i>	Migrant flocks, with grackles	150+
	Common grackle	<i>Quiscalus quiscula</i>	Migrant flocks, with red-winged blackbirds	100+
	House finch	<i>Carpodacus mexicanus</i>	Foraging on pier	4
	American goldfinch	<i>Carduelis tristis</i>	Foraging on pier	6
	House sparrow	<i>Passer domesticus</i>	In planted trees in parking lot and adjacent planting	10

FLORA AND FAUNA

PUBLIC MEETING 1  
NOVEMBER 15, 2012

PIER 53: WASHINGTON AVENUE GREEN

WASHINGTON AVENUE & SOUTH COLUMBUS BOULEVARD  
PHILADELPHIA, PA