



MOCK PARK NATURE PRESERVE MANAGEMENT PLAN

2023



2520 MOCK RD, COLUMBUS OH 43219

MOCK PARK NATURE PRESERVE EXECUTIVE SUMMARY

Columbus Nature Preserves

The Columbus Recreation and Parks Department has 20 designated nature preserves that encompass over 2,850 acres across Franklin and Delaware County. Nature preserves provide for the conservation, protection, and enhancement of ecologically significant land through research, awareness, and education. The first city nature preserves were adopted in 1988 with additional preserves added in 2004, 2010, and 2016. In 2022, the designation process of nature preserves was added into Columbus City Code.

Mock Park Nature Preserve

Q 2520 Mock Rd. Columbus, OH 43219

Mock Park Nature Preserve features 82 acres of wooded ravines, floodplain, and streams overlooking Alum Creek. With an upland hardwood forest dominated by oak and hickory species, Mock Park provides habitat for a wide range of wildlife, including endangered bat populations.





ColumbusRecParks.com

Features and Amenities Amenities Features • Trails • Mature upland forest, dominated by oak and hickory High bluffs overlooking Alum Creek • Over 11,000 linear feet of streams, including high-quality streams • Large number of grassland bird species Listed Species Indiana bat* Northern long-eared bat* Monarch butterfly[^] (Myotis sodalist) (Myotis septentrionalis) (Danaus plexippus) *Endangered **Threatened ***Species of Concern ^Candidate Species Habitat

Upland Forest (95%)

River (3%)

Grassland/ Herbaceous (3%)

Recommendations

To maintain, conserve, and restore Mock Park Nature Preserve:

Keep the Nature Preserve in its original state and limit activities to pedestrian trail use only. Mock has a mature forest containing high quality, free-flowing streams in an urbanized watershed.



Remove invasive honeysuckle, privet, and multi-flora rose, and other invasive plants. Multi-flora rose is the most widespread invasive species within Mock Park. This aggressive species has overtaken native plants, and is present throughout the entire nature preserve. Removal of multi-flora rose should be performed first, and remove other invasive plant species as resources allow.



Install additional signage. Provide signage about the Nature Preserve and its boundaries, educational signage on park features, and to prohibit feeding wildlife.



Stabilize and restore streams through riparian re-establishment. The main perennial headwater stream corridor contains little to no woody species. An ephemeral stream located along the eastern boundary also lacks a riparian corridor and appears to have been channelized. Restoration practices would improve downstream water quality.

ACKNOWLEDGMENTS

This Nature Preserve Management Plan is the culmination of efforts of the Columbus community, individuals, and groups who devoted their time and energy to the future of the City of Columbus nature preserves. We sincerely appreciate everyone who made this plan possible through their enthusiasm, commitment, creative input, and support. A special thank you to the following organizations for their leadership throughout the planning process:

Columbus Recreation & Parks Department

Columbus City Council

Columbus Mayor's Office

Columbus Recreation and Parks Commission

Nature Preserve Advisory Council

Prepared By:

Stone Environmental Engineering & Science, a division of CAP-STONE & Associates, Inc.



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Mock Park Known Species List (2022)



1 INTRODUCTION

1.1 Columbus Nature Preserves Overview

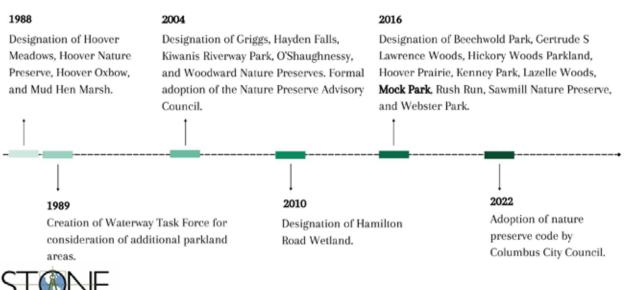
The Columbus Recreation and Parks Department (CRPD) works to preserve the local natural heritage for the Columbus community to enjoy. CRPD recognizes environmentally unique and sensitive areas as designated nature preserves. The Columbus Nature Preserve system is one of a few city nature preserve programs in the state of Ohio.

All Columbus nature preserves are managed by CRPD and advised by the Nature Preserve Advisory Council (NPAC). The NPAC, previously known as the Hoover Nature Preserve Advisory Council, was formally created by City Resolution with the designation of Hoover Nature Preserve, in 1988. In 2004, it was formally renamed by Resolution. The council is composed of nine (9) members. Within the Columbus Nature Preserves, the purposes and objectives of the NPAC are to:

- 1. Advise and make recommendations to the Executive Director of CRPD concerning the management and wise use of the natural resources.
- 2. Advocate for the conservation, protection, enhancement, and wise use of the natural resources.
- 3. Foster the development and application of science-based resource policies and practices and to promote through education and example, and ethic that recognizes the interdependence of people and the environment.

The first city nature preserve was adopted in 1988, for the purpose of protecting and maintaining the drinking water supply at Hoover Reservoir. Additional preserves were designated in 2004, 2010, and 2016. The timeline below lists the year each nature preserve was designated. Note that these properties were acquired years prior to their designation. To date, the system includes over 2,850 protected acres across 20 nature preserves. Of the 20 nature preserves, ten are adjacent to Griggs, Hoover, or O'Shaughnessy Reservoirs and therefore, jointly managed by Columbus Department of Public Utilities (DPU) Division of Water.

Columbus Nature Preserve Timeline



1.2 Management Plan Purpose

This management plan details the site history, amenities, landscape context, habitat types, plant and wildlife species, and recommendations. This plan fulfills Columbus City Code 919.27's requirement for a management plan to provide the framework for management, restoration, and protection of the nature preserve. The intent is to ensure the long-term viability of the nature preserve's natural resources while allowing visitors to experience nature.

2 SITE HISTORY AND DESCRIPTION

2.1 Preserve History

Mock Park Nature Preserve is approximately 82.8-acres of the total 102.47-acres of Mock Park, Franklin County Parcel ID #010-129754-00. The park was acquired in 1959, with additional acreage being acquired in 1961 and 1963. The parkland adjacent to the nature preserve includes the Willis Athletic Complex, playground, sports courts, and sports fields. This management plan will focus on the nature preserve portion of Mock Park hereafter. Mock Park was designated as a nature preserve in 2016.

2.2 Location Description

Mock Park's address is 2520 Mock Road, Columbus, OH 43219. Mock Park is located in the eastern portion of Columbus, within the neighborhood of Bridgeview, north of Mock Road,

east of Dawnlight Avenue, south of Agler Road, and west of Alum Creek and the Alum Creek Multi-Use Trail.

Surrounding land use includes urban residential housing with intermixed forested area along streams. See "Mock Park Nature Preserve" location map.



Upland area with steep bluff overlooking Alum Creek.





Mock Park Nature Preserve

Preserve Boundary

Nearby CRPD Properties



3 AMENITIES AND ATTRIBUTES

3.1 Amenities

No constructed amenities exist within Mock Park Nature Preserve boundary, except an approximate 350-foot mowed trail and a shared parking lot with the adjacent parkland. The mowed trail ends at a steep slope adjacent to a perennial stream.

3.2 Landscape Context

Mock Park contains varying topography, including rolling hills, stream valleys, and steep bluffs abutting Alum Creek. Drainage flows to the east into Alum Creek and to the south, into unnamed tributaries to Alum Creek.

The Federal Emergency Management Agency (FEMA) Regulatory Floodway and 500-year floodplain exists within the Preserve along Alum Creek. Federal Emergency Management Agency (FEMA) 100-year floodplain and 500year floodplain also exists along the eastern portion of a perennial unnamed tributary to Alum Creek. These floodplain areas provide habitat for fish and wildlife, recharge groundwater, and improve surface water quality.

The following soils are mapped within Mock Park:



Perennial unnamed tributary to Alum Creek containing cobble and gravel.

- Alexandria silt loam, with slopes varying from flat to steep, is described as deep, well drained soils composed of materials deposited by glaciers.
- **Bennington silt loam** is described as somewhat poorly drained soils formed in loamy till of medium lime content in relatively flat areas.
- **Cardington silt loam** with moderate slopes is described as very deep, moderately well drained soils composed of debris that accumulate at the bottom of a glacier.
- **Eldean-Urban land complex** has well drained soils on flat topography consisting of sandy and gravelly material from outwash materials.
- Genesee silt loam consists of well drained soils formed in generally flat floodplains.
- **Shoals silt loam** is somewhat poorly drained soil formed on relatively flat floodplain areas.

3.2.1 Streams

Mock Park is located in the Bliss Run-Alum Creek Watershed (Ohio EPA Hydrologic Unit (HUC) #050600011602). This watershed is located within a largely urban environment, making Mock Park an important feature for urban wildlife.



Mock Park also contains a perennial stream which is an unnamed tributary to Alum Creek. It is ranked as an Ohio EPA Headwater Habitat Evaluation Index Class, the highest quality headwater stream based on physical habitat. This stream contains good quality physical habitat. with a mixture of coarse substrates, including cobble and gravel, little siltation, and deep pools. Upstream of Mock, this stream is buried and the flow is conveyed through a culvert, so this open, freeflowing perennial stream is a unique feature of Mock.



A deep, linear pool within the unnamed tributary to Alum Creek.

Mock includes two main stream valleys: Alum Creek in the northeast portion and a perennial unnamed tributary to Alum Creek flowing from the west to east. Several additional streams flow into these two main stream valleys. In total, it is estimated the nature preserve contains 25 streams and over 11,000 linear feet of stream.

See "Mock Park Streams & Wetlands" map.

3.2.2 Wetlands

Mock includes no large or easily identifiable wetlands. Several small (<0.1acre) wetlands abutting headwater streams exist within portions of the nature preserve. These smaller wetlands are mostly dominated by spicebush (*Lindera benzoin*), American elm (*Ulmus americana*), and fowl manna grass (*Glyceria striata*).

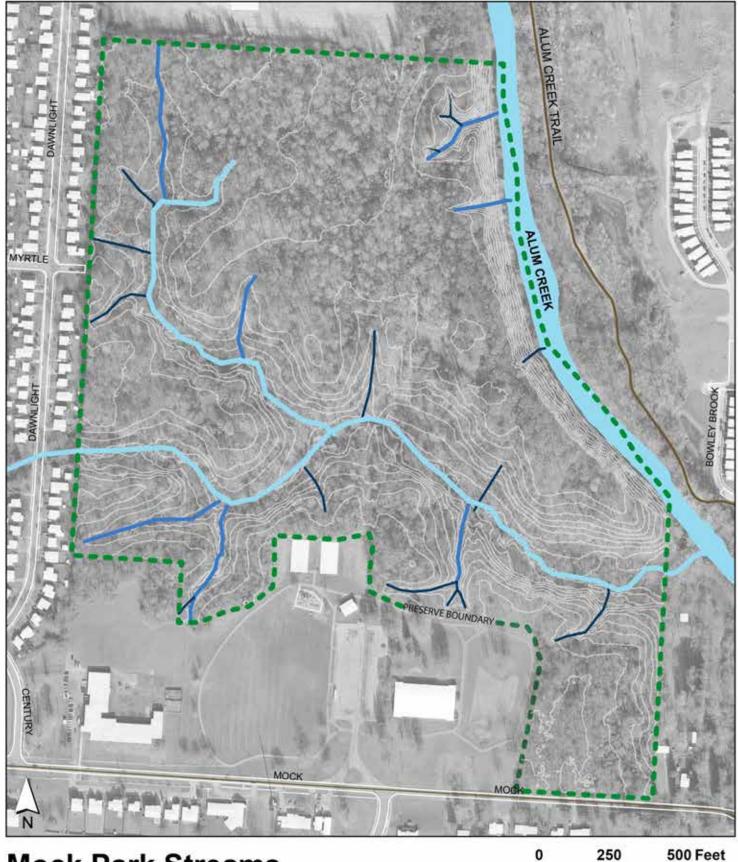
Using the Ohio EPA Ohio Rapid Assessment Method, the wetland is

Small potential wetland area.

considered higher quality with a preliminary Ohio EPA wetland Category of 2. These wetlands have good habitat and intact hydrology that are desired to be protected.

These small wetlands receive water from adjacent streams and filter the streams and other drainage that flows through the wetlands, prior to entering Alum Creek. See "Mock Park Streams & Wetlands" map.





Mock Park Streams

Perennial Stream

Ephemeral Stream

Intermittent Stream

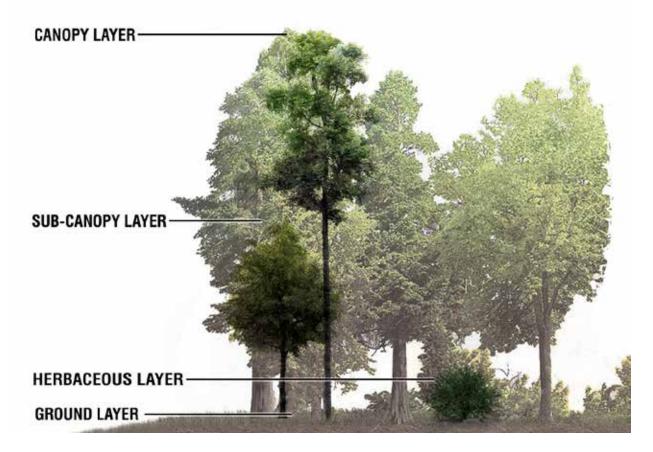
5' Contours





3.3 Vegetation and Habitat

Commonly observed native tree species include sugar maple (*Acer saccharum*), bitternut hickory (*Carya cordiformis*), and white oak (*Quercus alba*) within the upland forest habitat.



Commonly observed native sub-canopy species include spicebush (*Lindera benzoin*) and pawpaw (*Asimina triloba*).

The native herbaceous layer is dominated by mayapple (*Podophyllum peltatum*), wild grape vine (*Vitis riparia*), wild garlic (*Allium vineale*), and hog nut (*Amphicarpaea bracteate*).

See "Mock Park Habitat Types & Invasive Species" map that illustrates the general vegetation coverage within Mock. Reported past management practices include mowing, prescribed burning, tree girdling, removal of invasive species, and herbicide treatment. The following habitat types were identified:

- 1. Upland Forest
- 2. River
- 3. Grassland/Herbaceous

The "Mock Park Known Species List (2022)" is included as an attachment.



3.3.1 Upland Forest

Mock consists of 78-acres of upland forest, which includes portions of mature forest. This forest serves as an important riparian area, a forested area surrounding streams, for the numerous headwater streams and Alum Creek. It is habitat for a number of plant and animal species, including potential habitat for protected bat species. Bats utilize forests during the summer to roost and often prefer to forage along riparian stream corridors that Mock provides.





Upland Forest

Upland Forest (with stream valley)

Upland Forest



Typical upland forest.

3.3.2 River

Mock Park includes over 11,000 linear feet of stream, including two main stream valleys: Alum Creek in the northeast portion and a perennial unnamed tributary to Alum Creek flowing from the west to east. These streams contain good physical habitat and are able to flow freely and flood the surrounding landscape when needed. A majority of streams surrounding Mock Park are culverted. Riparian habitats along rivers are of particular importance for plant and wildlife habitat, and are often used by birds, mammals, and amphibians.





River



Steep stream valleys with an ephemeral stream flowing into Alum Creek.

3.3.3 Wetland

Mock Park includes several small (<0.1-acre) wetlands that surround headwater streams (see section 3.2.2 for details). Wetlands filter water and improve downstream water quality. They reduce flooding and store carbon. Wetlands also serve as wildlife habitat.

3.3.4 Grassland/Herbaceous

Mock Park includes approximately 2.1-acres of grassland/herbaceous vegetation, consisting of Canada goldenrod (*Solidago canadensis*), wild garlic (*Allium canadense*), and a mixture of grasses. Seeding of native prairie plants has occurred in grassland areas.



Grassland/Herbaceous (with stream)



Grassland/ Herbaceous

3.3.5 Invasive Vegetation

Dominant invasive species include three shrubs: privet (*Ligustrum* spp.), honeysuckle (*Lonicera* spp.), and multi-flora rose (*Rosa multi-flora*). Honeysuckle is most dense within the southwestern portion of Mock. Privet is most dense in the northern central portion and west central portion of Mock. Multi-flora rose is present throughout a majority of the nature preserve. Based on the extent of coverage of multi-flora rose, and due to its aggressive spread



which forms thickets and outcompetes native shrubs and herbaceous plants, removal of this invasive species is a priority.

See "Mock Park Habitat Types & Invasive Species" map.

3.4 Listed/Protected Plant and Wildlife Species

Plant and wildlife species data below were requested from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) data and the Ohio Department of Natural Resources (ODNR) Natural Heritage Data (NHD). Mock Park is within the potential habitat ranges of the following endangered, threatened, or species of concern plants and/ or wildlife. Therefore, these species may be found within the Nature Preserve.

Plants

No USFWS federally listed plant species or ODNR state listed plant species ranges or records are known to exist within Mock Park.

The following records or ranges for wildlife were identified within Mock Park:

Mammals

The Federally endangered Indiana bat (*Myotis* sodalist) and northern long-eared bat (*Myotis* septentrionalis) are found in Ohio. These bats face extinction due to the range-wide impacts of whitenose syndrome, a deadly disease affecting cavedwelling bats across the continent.

These species hibernate, therefore are not typically found in trees in the winter. However, when not in hibernation, they use the trees within forests for foraging, roosting, and raising their young in the summer, and often return to the same forests. The mature forest in Mock provides suitable habitat for the bats.

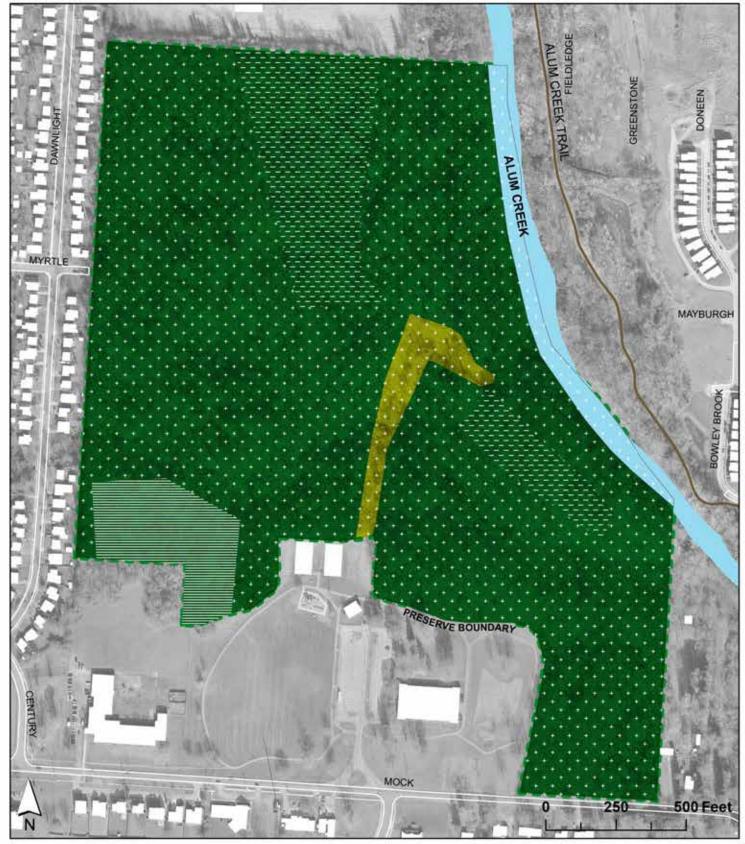
Insects

The monarch butterfly (*Danaus plexippus*) is a candidate for being considered Federally Threatened or Endangered (due to the significant decline in their numbers). Monarchs seek milkweed plants for food and laying eggs as part of their annual migration from as far north as Canada down to central Mexico. Wildflowers present in Mock provide suitable food sources for monarch butterflies.



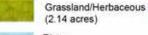
The large, mature trees found in Mock Park can provide habitat for endangered bat species.





Mock Park Habitat Types & Invasive Species







Upland Forest (78.2 acres) Invasive Species:

H

---- (9.73 acres) ≣ Multi-Flora Rose + (82.8 acres) Honeysuckle (3.88 acres)



3.5 Wildlife

2023

With its wide range of habitat types, Mock supports populations of mammals, birds, reptiles, amphibians, and fish. A species list of wildlife documented in Mock is attached.

Freshwater mussels, which are protected in the state of Ohio, are documented in Alum Creek.

Nestboxes have been installed in grassland areas. Bird species include:

- American redstart (*Setophaga ruticilla*)
- Baltimore oriole (*Icterus galbula*)
- downy woodpecker (*Picoides pubescens*)
- red-eyed vireo (*Vireo olivaceus*)
- veery (*Catharus fuscescens*)
- wood thrush (*Hylocichla mustelina*)
- yellow warbler (*Setophaga petechia*)
- yellow-billed cuckoo (Coccyzus americanus)

Other reported species include:

• eastern box turtle (*Terrapene carolina carolina*)



White-tailed deer fawn peaking behind a fallen tree trunk.

4 RECOMMENDATIONS

In 2022, Columbus City Code was amended by enacting Section 919.27 - Nature Preserve Code, to designate portions of parks as nature preserves for the benefit of present and future residents of the City of Columbus. The purpose of the Nature Preserve Code is to identify, protect, and manage Nature Preserves. The management of Nature Preserves includes ensuring it is maintained in its existing, near-natural, or restored state. In order to continue to benefit the residents of Columbus and follow Nature Preserve Code, the following actions are recommended.

4.1 Protection

4.1.1 Maintain Pristine, Native Habitat

Mock Park Nature Preserve contains contiguous upland forest, which includes portions of mature forest. This forest serves as important riparian area for the numerous headwater streams and Alum Creek. It also supports habitat for a number of species.

Mock includes several streams, including two main stream valleys, Alum Creek in the northeast portion, and a perennial unnamed tributary to Alum Creek flowing from the west to east. These streams mostly contain good physical habitat and are able to flow freely and flood the surrounding landscape when needed. A majority of streams surrounding Mock Park are culverted.

Continued protection of the natural resources within Mock is vital, to ensure these resources remain for future generations. It is recommended that park users have a "leave no trace" mentality when visiting Mock Park.



It is important to understand the natural resources within Mock in order to prioritize management activities. One consideration would be to update the listing of observed species of flora and fauna within Mock once every five years. This update should include a thorough survey of species through multiple seasonal field visits. Documenting the specific location of sensitive species and habitat in GIS could be used to protect the most rare or sensitive resources.

4.1.2 Plant Management

All native plants are to be left alone in their original state. If trees naturally fall, they are to remain where they land to provide habitat for wildlife. If trees are designated as a severe risk, trees should be cut to the remainder of a 20-to-30-foot stump of standing dead habitat.

4.1.3 Invasive Species Removal

Invasive plant species, including honeysuckle, privet, and multi-flora rose, are prevalent throughout a majority of Mock. Although eradication of invasive species is desirable to preserve the native biological diversity, extensive time and effort, as well as costs, are involved with this goal.

If addressing the invasive species at Mock is pursued, the first priority should be the removal of multi-flora rose. This is due to the extensive coverage throughout Mock and the aggressive nature of multi-flora rose. Native herbaceous plants should be planted in areas where heavily dominated invasive species areas have been cleared.

Removal efforts may be accomplished by the continued organization of volunteer events through Mock partners. The application of pesticide should follow the standards described in the CRPD Integrated Pest Management Policy Statement. In some cases, planting of native species may be required once invasives are removed.

4.2 Conservation

4.2.1 Visitor Management

To provide a safe and enjoyable visitor experience while protecting Mock Park's natural resources, CRPD will use strategies to achieve resource protection. These practices may include visitors having minimal impact on the natural area by respecting plant and wildlife, disposing of waste properly, and being considerate of others.

4.2.2 Community Involvement

Engage neighbors and community members around Mock through volunteer event signs posted in Mock and posted on social media. Continue to engage with Friends of Alum Creek and Tributaries (FACT). Events may include education on encroachment, invasive species removal, litter pick-up events, plantings, and others.

4.2.3 Deer Management

A consistent deer population is present within Mock Park. It is advised that the deer population be monitored. If guidance is provided by USFWS or ODNR, deer control practices



4.3 Enhancement

4.3.1 Trails

One mowed trail currently exists within Mock. The trail stops once it reaches an unnamed tributary to Alum Creek. It is recommended this trail be expanded over the unnamed tributary to Alum Creek. A bridge could be constructed over the stream to allow wildlife observation while at the same time protecting the banks from being degraded. This would also provide visitors easier access to the north side of Mock. Such bridges should be installed in locations where observers would have minimal impact on wildlife.

In addition, trails may be able to be expanded through forested areas. No trees or significant native vegetation should be removed to install trails. Trail surface could consist of native soils and/or added native mulch.

4.3.2 Signage

One identifying sign exists for Mock.

Install signs identifying Mock Park as a Nature Preserve, along with a summary of the Nature Preserve regulations at the main access points at the mowed trail and Myrtle Avenue. Due to the unique setting of Mock Park being surrounded by residential development, additional signage could be considered in an effort to clearly demarcate the Mock Park Nature Preserve boundaries. Educational



signage may also be installed regarding the streams, and upland forest habitat as well as to control litter. Additional signage is recommended to aid in preventing encroachment along the western and northern boundaries.

4.3.3 Stream Restoration

Two areas of potential stream restoration were identified. The main perennial headwater stream valley which flows into Alum Creek contains a portion along the existing mowed trail that contains little to no woody species within the riparian area. An ephemeral stream flowing west to east along the western boundary of Mock Park shows signs of being channelized and straightened. Both of these stream reaches are heavily incised and eroding. Restoration practices could be applied to each stream reach in order to restore the streams and improve downstream water quality.



ATTACHMENTS

Mock Park Known Species List (2022)		
	Plants	
Scientific Name	Common Name	
Acer negundo	Box Elder	
Acer nigrum	Black maple	
Acer rubrum	Red Maple	
Acer saccharinum	Silver Maple	
Acer saccharum	Sugar Maple	
Achillea millefolium	Common Yarrow	
Actaea alba	Baneberry	
Aesculus glabra	Ohio Buckeye	
Agrimonia parviflora	Swamp Agrimony	
Agrimonia pubescens	Soft Agrimony	
Agrimonia rostellata	Woodland Agrimony	
Agrostis gigantea	Black Bent	
Agrostis hyemalis	Winter Bentrgrass	
Agrostis perennans	Upland Bentgrass	
Ailanthus altissima	Tree of Heaven	
Alliaria petiolata	Garlic Mustard	
Allium canadense	Wild Garlic	
Allium tricoccum	Ramp	
Allium vineale	Wild Garlic	
Ambrosia artemisiifolia	Common Ragweed	
Amphicarpaea bracteate	Hog Nut	
Anemone virginiana	Tall Thimbleweed	
Apocynum cannabinum	Dogbane	
Arabis laevigata	Smooth Rockcress	
Aristida oligantha	Prairie Threeawn	
Artemisia annua	Wormwood	
Asarum canadense	Canada Wild Ginger	
Asimina triloba	Pawpaw	
Asplenium platyneuron	Ebony Spleenwort	
Aster lanceolatus	Panicled Aster	
Aster lateriflorus	Calico Aster	
Aster novae-angliae	New England Aster	
Aster pilosus	Hairy White Oldfield Aster	
Aster puniceus	Purplestem Aster	
Aster sagittifolius	Arrow-leaved Aster	
Aster shortii	Short's Aster	
Berberis thunbergii	Japanese Barberry	
Bidens frondosa	Beggarticks	
v	00	

Mock Park Known Species List (2022)		
	ants	
Scientific Name	Common Name	
Botrychium dissectum	Cutleaf Grape Fern	
Botrychium virginianum	Rattlesnake Fern	
Brachyelytrum erectum	Southern long-awned Wood Grass	
Bromus pubescens	Hairy Woodland Brome	
Camassia scilloides	Wild Hyacinth	
Campanula americana	Tall Bellflower	
Cardamine concatenata	Cutleaf Toothwort	
Carex aggregata	Glomerate Sedge	
Carex albicans	Whitetinge Sedge	
Carex albursina	White Bear Sedge	
Carex annectens	Yellowfruit Sedge	
Carex blanda	Common Woodland Sedge	
Carex cephalophora	Oval-leaf Sedge	
Carex debilis	White Edge Sedge	
Carex digitalis	Slender Woodland Sedge	
Carex hirsutella	Hairy-Leaved Sedge	
Carex jamesii	James' Sedge	
Carex pensylvanica	Pennsylvania Sedge	
Carex rosea	Rosy Sedge	
Carex stipata	Prickly Sedge	
Carex vulpinoidea	Common Fox Sedge	
Carpinus caroliniana	American Hornbeam	
Carya cordiformis	Bitternut Hickory	
Carya ovata	Shagbark Hickory	
Celastrus scandens	American Bittersweet	
Celtis occidentalis	Common Hackberry	
Chaerophyllum procumbens	Spreading Chervil	
Chrysanthemum leucanthemum	Oxeye Daisy	
Cichorium intybus	Chicory	
Cinna arundinacea	Wood Reed Grass	
Circaea lutetiana	Broad-leaved Enchanter's	
	Nightshade	
Cirsium arvense	Canada Thistle	
Cirsium discolor	Field Thistle	
Cirsium vulgare	Bull Thistle	
Claytonia virginica	Spring Beauty	
Conyza canadensis	Canadian Fleabane	
Cornus alternifolia	Pagoda Dogwood	
Cornus florida	Flowering Dogwood	

Mock Park Known Species List (2022)			
	Plants		
Scientific Name	Common Name		
Crataegus sp.	Hawthorn		
Cryptotaenia canadensis	Honewort		
Cystopteris protrusa	Lowland Fragile Fern		
Danthonia spicata	Poverty Oatgrass		
Desmodium glutinosum	Pointedleaf Ticktrefoil		
Desmodium nudiflorum	Stemless Tick Trefoil		
Desmodium paniculatum	Panicled-leaf Ticktrefoil		
Diarrhena americana	American Beak Grass		
Dicentra cucullaria	Dutchman's Breeches		
Eleagnus umbellata	Autumn Olive		
Elymus patula	Hystrix Patula		
Elymus villosus	Hairy Wild Rye		
Elymus virginicus	Virginia Wild Rye		
Equisetum arvense	Common Horsetail		
Erigeron philadelphicus	Philadelphia Fleabane		
Erythronium americanum	Yellow Trout Lily		
Euonymus alatus	Burning Bush		
Euonymus atropurpureus	Eastern Wahoo		
Euonymus fortunei	Wintercreeper Euonymus		
Euonymus obovatus	Running Strawberry Bush		
Eupatorium altissimum	Tall Boneset		
Eupatorium rugosum	Fall Poison		
Euthamia graminifolia	Grass-leaved Goldenrod		
Fagus grandifolia	American Beech		
Festuca arundinacea	Tall Fescue		
Festuca subverticillata	Nodding Fescue		
Floerkia proserpinacoides	False Mermaidweed		
Fraxinus americanus	White Ash		
Fraxinus pennsylvanica	Green Ash		
Fraxinus quadrangulata	Blue Ash		
Galium aparine	Catchweed Bedstraw		
Galium circaezans	Licorice Bedstraw		
Galium concinnum	Shining Bedstraw		
Galium pilosum	Hairy Bedstraw		
Galium triflorum	Fragrant Bedstraw		
Geranium maculatum	Wild Cranesbill		
Geum canadense	White Avens		
Geum vernum	Spring Avens		

Mock Park Known Species List (2022)		
Plants		
Scientific Name	Common Name	
Geum virginianum	Cream Avens	
Gleditsia triacanthos	Honey Locust	
Glyceria striata	Fowl Mannagrass	
Hackelia virginiana	Beggar's Lice	
Hemerocallis fulva	Tawny Daylily	
Hepatica acutiloba	Liverleaf Liverwort	
Hydrophyllum canadense	Bluntleaf Waterleaf	
Hydrophyllum macrophyllum	Hairy Waterleaf	
Hypericum perforatum	St. John's Wort	
Hypericum punctatum	Spotted St. John's-wort	
Impatiens capensis	Common Jewelweed	
Ipomoea pandurata	Wild Potato Vine	
Jeffersonia diphylla	Twinleaf	
Juglans nigra	Black Walnut	
Juncus dudleyi	Dudley's Rush	
Juncus tenuis	Slender Rush	
Juncus torreyi	Torrey's Rush	
Juniperus virginiana	Eastern Red Cedar	
Justicia americana	American Water Willow	
Leersia virginica	Whitegrass	
Lindera benzoin	Spicebush	
Ligustrum vulgare	Common Privet	
Liparis lilifolia	Mauve Sleekwort	
Liriodendron tulipifera	Yellow Poplar	
Lobelia inflata	Indian Tobacco	
Lobelia siphilitica	Blue Cardinal Flower	
Lonicera japonica	Great Blue Lobelia	
Lonicera maackii	Amur Honeysuckle	
Lonicera morrowii	Morrow's Honeysuckle	
Lonicera tatarica	Tatarian Honeysuckle	
Lysimachia nummularia	Moneywort	
Menispermum canadense	Common Moonseed	
Mimulus alatus	Winged Monkey Flower	
Monotropa uniflora	Indian Pipe	
Morus rubra	Red Mulberry	
Muhlenbergia schreberi	Nimblewill	
Osmorhiza claytonii	Clayton's Sweetroot	
Osmorhiza longistylis	Sweet Cicely	

Mock Park Known Species List (2022)		
	ints	
Scientific Name	Common Name	
Ostrya virginiana	Eastern Hop-hornbeam	
Oxalis stricta	Common Yellow Wood Sorrel	
Panicum implicatum	Panic Grass	
Panicum latifolium	Broad-leaved Panic Grass	
Parthenocissus quinquefolia	Virginia Creeper	
Parthenocissus vitacea	Hiedra Creeper	
Penstemon digitalis	Foxglove Beardtongue	
Phlox divaricata	Woodland Phlox	
Phryma leptostachya	American Lopseed	
Phytolacca americana	Pokeweed	
Pilea pumila	Clearweed	
Platanus occidentalis	American Sycamore	
Poa alsodes	Grove Blue Grass	
Poa compressa	Canada Bluegrass	
Podophilum peltatum	Mayapple	
Polygonatum biflorum	Smooth Solomon's-seal	
Polygonum persicaria	Spotted Ladysthumb	
Polygonum punctatum	Dotted Smartweed	
Populus deltoides	Eastern Cottonwood	
Potentilla canadensis	Dwarf Cinquefoil	
Prenanthes altissima	Tall Rattelsnakeroot	
Prunella vulgaris	Common Self-heal	
Prunus serotina	Black Cherry	
Prunus virginiana	Chokecherry	
Quercus alba	White Oak	
Quercus bicolor	Swamp White Oak	
Quercus muhlenbergii	Chinquapin Oak	
Quercus palustris	Pin Oak	
Quercus rubra	Red Oak	
Ranunculus abortivus	Littleleaf Buttercup	
Rhamnus cathartica	European Buckthorn	
Robinia pseudoacacia	Black Locust	
Rosa carolina	Carolina Rose	
Rosa multiflora	Multiflora Rose	
Rosa setigera	Climbing Prairie Rose	
Rubus allegheniensis	Allegheny Blackberry	
Rubus occidentalis	Bblack Raspberry	
Rudbeckia hirta	Black-eyed Susan	

Mock Park Known Species List (2022)		
Pla		
Scientific Name	Common Name	
Rudbeckia triloba	Brown-eyed Susan	
Salix exigua	Sandbar Willow	
Salix nigra	Black Willow	
Sanguinaria canadensis	Bloodroot	
Sanicula canadensis	Canadian Blacksnakeroot	
Sanicula gregaria	Clustered Black Snakeroot	
Sanicula marilandica	Maryland Black Snakeroot	
Sassafras albidum	Sassafras	
Scirpus atrovirens	Common Bulrush	
Scirpus pendulus	Rufous Bulrush	
Sedum ternatum	Woodland Stonecrop	
Senecio aureus	Golden Ragwort	
Senecio obovatus	Roundleaf Ragwort	
Silene virginica	Fire Pink	
Smilacina racemosa	False Spikenard	
Smilax hispida	Bristly Greenbrier	
Solidago caesia	Wreath Goldenrod	
Solidago canadensis	Canadian Goldenrod	
Solidago flexicaulis	Broadleaf Goldenrod	
Solidago gigantea	Giant Goldenrod	
Solidago juncea	Early Goldenrod	
Solidago nemoralis	Common Goldenrod	
Staphylea trifolia	American Bladdernut	
Thalictrum dioicum	Early Meadow-rue	
Tilia americana	American Basswood	
Tovara virginiana	Jumpseed	
Toxicodendron radicans	Common Poison Ivy	
Tridens flavus	Grease Grass	
Trillium grandiflorum	Great White Trillium	
Triosteum aurantiacum	Orange-Fruited Horse Gentian	
Typha latifolia	Broadleaf Cattail	
Ulmus americana	American Elm	
Ulmus rubra	Slippery Elm	
Uvularia grandiflora	Largeflower Bellwort	
Valeriana pauciflora	The Largeflower Valerian	
Valerianella umbilicata	Navel Cornsalad	
Verbesina alternifolia	Wingstem	
Vernonia gigantea	Giant Ironweed	

Mock Park Known Species List (2022)		
Plants		
Scientific Name	Common Name	
Veronica officinalis	Common Gypsyweed	
Viburnum dentatum	Arrowwood Viburnum	
Viburnum opulus	European Cranberry Bush	
Viburnum prunifolium	Black Haw	
Viola sororia	Woolly Blue Violet	
Viola striata	Striped Cream Violet	
Vitis aestivalis	Summer Grape	
Vitis riparia	Riverbank Grape	
Zanthoxylum americanum	Prickly Ash	

Mock Park Known Species List (2022)		
Mammals		
Scientific Name	Common Name	
Odocoileus virginianus	White-tailed Deer	

Mock Park Known Species (2022)		
Reptiles		
Scientific Name	Common Name	
Terrapene carolina carolina	Eastern Box Turtle	

Mock Park Known Species List (2022)		
	irds	
Scientific Name	Common Name	
Agelaius phoeniceus	Red-winged Blackbird	
Baeolophus bicolor	Tufted Titmouse	
Bombycilla cedrorum	Cedar Waxwing	
Branta canadensis	Canada Goose	
Buteo jamaicensis	Red-tailed Hawk	
Cardinalis cardinalis	Northern Cardinal	
Catharus fuscescens	Veery	
Chaetura pelagica	Chimney Swift	
Coccyzus americanus	Yellow-billed Cuckoo	
Colaptes auratus	Northern Flicker	
Contopus virens	Eastern Wood-Pewee	
Corvus brachyrhynchos	American Crow	
Cyanocitta cristata	Blue Jay	
Dryocopus pileatus	Pileated Woodpecker	
Dumetella carolinensis	Gray Catbird	
Empidonax virescens	Acadian Flycatcher	
Geothlypis formosa	Kentucky Warbler	
Geothlypis trichas	Common Yellowthroat	
Hirundo rustica	Barn Swallow	
Hylocichla mustelina	Wood Thrush	
Icterus galbula	Baltimore Oriole	
Leuconotopicus villosus	Hairy Woodpecker	
Melanerpes carolinus	Red-bellied Woodpecker	
Melospiza melodia	Song Sparrow	
Molothrus ater	Brown-headed Cowbird	
Passerina cyanea	Indigo Bunting	
Picoides pubescens	Downy Woodpecker	
Pipilo erythrophthalmus	Eastern Towhee	
Piranga olivacea	Scarlet Tanager	
Poecile carolinensis	Carolina Chickadee	
Polioptila caerulea	Blue-gray Gnatcatcher	
Quiscalus quiscula	Common Grackle	
Setophaga petechia	Yellow Warbler	
Setophaga ruticilla	American Redstart	
Sitta carolinensis	White-breasted Nuthatch	
Spinus tristis	American Goldfinch	
Spizella pusilla	Field Sparrow	
Thryothorus ludovicianus	Carolina Wren	

Mock Park Known Species List (2022)	
Birds	
Scientific Name	Common Name
Turdus migratorius	American Robin
Vireo gilvus	Warbling Vireo
Vireo olivaceus	Red-eyed Vireo