



O'SHAUGHNESSY NATURE PRESERVE MANAGEMENT PLAN

2023



9280 DUBLIN RD, POWELL OH 43065

O'SHAUGHNESSY NATURE PRESERVE EXECUTIVE SUMMARY

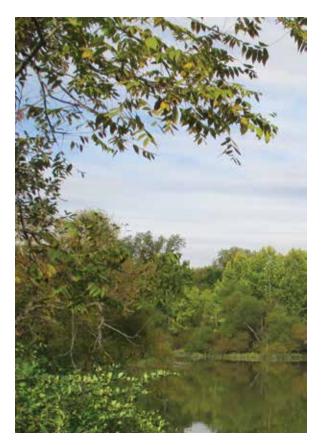
Columbus Nature Preserves

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.

O'Shaughnessy Nature Preserve

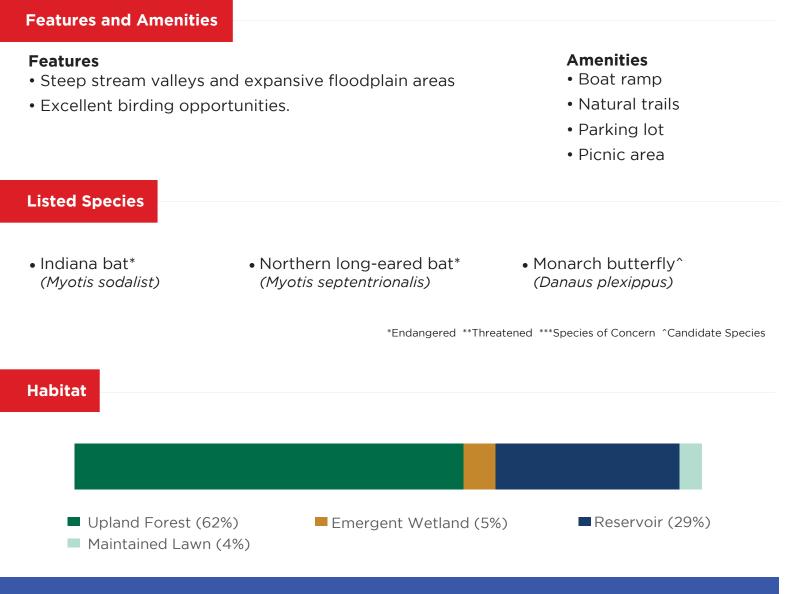
9280 Dublin Rd. Powell, OH 43065

O'Shaughnessy Nature Preserve has 80 acres of upland forest, wetlands and a large pond area that joins the Scioto River. The area is also known as "Twin Lakes" due to two large adjacent lakes within the nature preserve. The nature preserve is part of the O'Shaughnessy Reservoir, which was created in 1925 by damming the Scioto River. It was named after Jerry O'Shaughnessy Senior, who was a superintendent for the Columbus Waterworks. This area is within a migratory bird route where the nature preserve supports over 45 species of breeding birds and over 100 species of migrating birds. This area is within an important migratory bird route. Two statewide rare plant species, Drummond's aster and satin brome, grow along the stream banks. O'Shaughnessy is located about 9 miles northwest of Columbus in Delaware County and was designated a Preserve in 2004.





ColumbusRecParks.com



Recommendations

To maintain, conserve, and restore O'Shaughnessy Nature Preserve:



Keep the Nature Preserve in its original state and limit activities to pedestrian trail use only. O'Shaughnessy has a mature forest, emergent wetland, and large open water area for water fowl.



Remove invasive reed canary grass, autumn olive, honeysuckle, and callery pear as resources allow. Removal of reed canary grass should be performed first since it has overtaken native wetland plants, covering over 1-acre of the preserve.



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



Habitat Restoration. An open field could be managed to allow the prairie to revert back to forest. Drummond's aster and satin brome are forest dwelling plants and commonly found along or near streams. The forested area of O'Shaughnessy provides suitable habitat and should be expanded in order to allow more habitat for these two plant species.

The southernmost peninsula of O'Shaughnessy could be converted to a pollinator plot/prairie area. This management action would create critical habitat for pollinators and educate the public on the importance of pollinators.

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 Department of Public Utilities, Division of Water

Columbus Recreation and Parks Commission

Nature Preserve Advisory Council

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O'Shaughnessy Known Species List (2022)



1 INTRODUCTION

1.1 Columbus Nature Preserves Overview

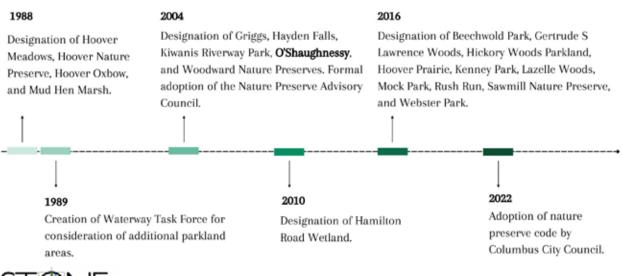
The Columbus Recreation and Parks Department (CRPD) works to preserve the local natural heritage for the Columbus community to enjoy. CRPD recognizes environmentally unique and sensitive areas as designated nature preserves. The Columbus Nature Preserve system is one of a few city nature preserve programs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



Portions of Nature Preserves located adjacent to Hoover, Griggs, and O'Shaughnessy Reservoir qualify for inclusion in the city's Land Stewardship Program. Any landowner participating in the Land Stewardship Program must comply with the standards regarding nature preserves in the Land Stewardship Design Standards (2020). The city's Land Stewardship Program allows for authorized activities and limited access for adjacent landowners. The program provides a balanced approach to protect the long-term health of the reservoirs while maintaining public recreational access. DPU remains committed to maintaining the reservoirs for the primary function of providing a quality drinking water supply, while also providing the community with compatible recreational access.

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

O'Shaughnessy Nature Preserve ("O'Shaughnessy") is approximately 80-acres in size and was designated as a nature preserve in 2004. It is located on a portion of the 310-acre Delaware County Parcel ID #60042301009000. O'Shaughnessy is situated on the west side of the O'Shaughnessy Reservoir, forming part of its 912-acres and 18.4 miles of shoreline. The reservoir was constructed in 1925 by damming the Scioto River downstream, in order to provide a second water source for the City of Columbus. It was named after Jerry O'Shaughnessy Senior, who was a superintendent for the Columbus Waterworks. The area is also known as "Twin Lakes" due to two large adjacent lakes within the nature preserve. The reservoir's surrounding watershed is approximately 770 square miles, composed mostly of agricultural land.

A historic cemetery, the Courtright Cemetery, is listed by the State Historic Preservation Office to have possibly been located northeast of the Dublin Road and Harriott Road intersection, within the southeastern corner of O'Shaughnessy.



2.2 Location Description

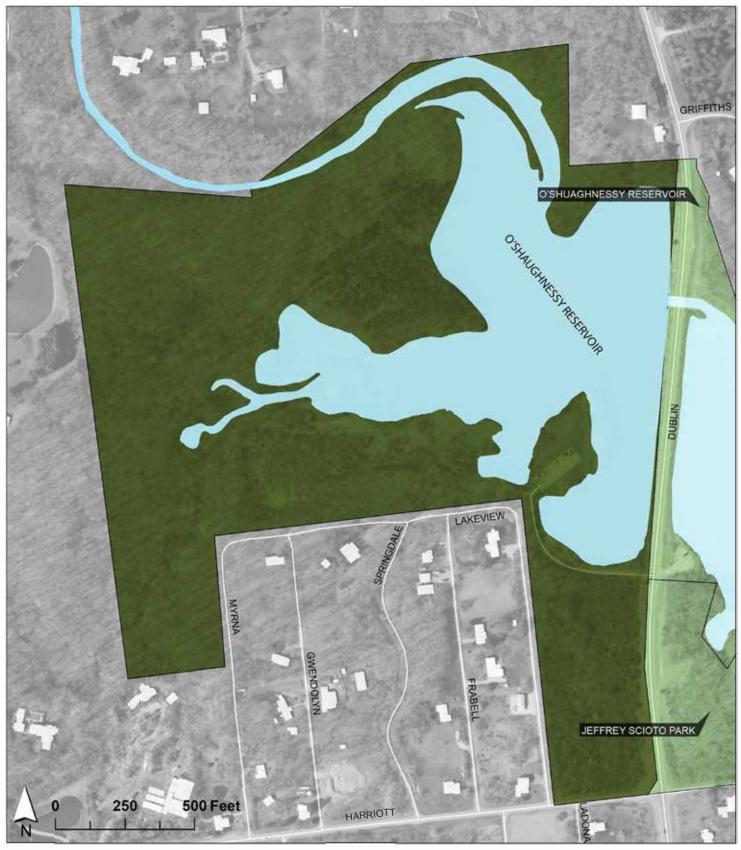
O'Shaughnessy's address is 9280 Dublin Road, Powell, OH 43065. O'Shaughnessy is located north of Harriott Road, east of Concord Road, south of Cook Road, and west of Dublin Road.

Surrounding land use includes the residential housing abutting the boundaries, forested areas, and O'Shaughnessy Reservoir. See "O'Shaughnessy Nature Preserve" location map.



O'Shaughnessy Reservoir and surrounding forest viewed from the boat ramp.





O'Shaughnessy Nature Preserve

Preserve Boundary

Nearby CRPD Properties

9280 DUBLIN RD, POWELL OH 43065



3 AMENITIES AND NATURAL RESOURCES

3.1 Amenities

Maintained natural trails are present in the southern portion of O'Shaughnessy. Additional trails created by visitor usage extend north, throughout O'Shaughnessy. A maintained picnic area, restroom, boat launch, and parking area are also present.

3.2 Landscape Context

O'Shaughnessy contains steep stream valleys and expansive floodplain areas, with the topography generally highest to the west and dropping over 50 feet in elevation to reach the flat topography along the O'Shaughnessy Reservoir banks. 100-year floodplain exists within the reservoir and into the adjacent stream valleys. These floodplain areas provide habitat for fish and wildlife, recharge groundwater, and improve surface water quality.

The following soils are mapped within O'Shaughnessy:

- **Glynwood silt loam** has moderate slopes with deep, moderately well drained soils composed of materials derived from limestone and shale.
- **Glynwood clay loam** with steep slopes has deep, moderately well drained soils composed of materials from clayey tills.
- Lybrand silt loam has very steep slopes, described as deep, well drained soils composed of materials deposited in glacial till.
 Millgrove silty clay loam has low slopes with very deep, very poorly drained soils composed of materials typical in outwashes.
- Rossburg silt loam has low slopes with very deep, well drained soils composed of materials typical in alluvium.
- Scioto silt loam has low slopes with very deep, well drained soils composed of materials typical in outwashes.
- Scioto silty clay loam has moderate slopes consisting of very deep, well drained soils composed of materials typical in outwashes.

3.2.1 Streams

O'Shaughnessy is located in the Eversole Run Watershed (Ohio Environmental Protection Agency (EPA) Hydrologic Unit (HUC) # 050600011201). This watershed is a mixture of urban and agricultural landscape and drains into the Scioto River and O'Shaughnessy Reservoir.

Eversole Run is a perennial stream within O'Shaughnessy that flows directly into the Scioto River and the O'Shaughnessy Reservoir. It is designated by the Ohio EPA as a Warmwater Habitat Stream.



Perennial unnamed tributary to O'Shaughnessy Reservoir.



2023

Additionally, O'Shaughnessy contains a perennial unnamed tributary to the O'Shaughnessy Reservoir. This stream contains a good mix of cobble and gravel, little siltation, and deep pools. This stream was previously assessed by the Ohio EPA in 2010 and scored as excellent for both fish species and physical habitat. The south bank of the stream is significantly eroded, with a wide and well-developed riparian area on the north bank.

O'Shaughnessy also contains two intermittent streams and four ephemeral

Eversole Run, a perennial stream within O'Shaughnessy.

streams. In total, O'Shaughnessy contains approximately 5,000 linear feet of stream.

See "O'Shaughnessy Streams & Wetlands" map.

3.2.2 Wetlands

O'Shaughnessy includes about 4.12-acres of emergent wetland, dominated by lizard's tail (*Saururus cernuus*) and orange jewelweed (*Impatiens capensis*).

Using the Ohio EPA Ohio Rapid Assessment Method, the wetlands are considered higher quality with good habitat and hydrology qualities that should be protected, with a preliminary Ohio EPA wetland Category of 2.

The wetlands receive water from surrounding perennial, intermittent, and ephemeral streams, as well as from the O'Shaughnessy Reservoir and drainage from surrounding landscape. The wetlands with direct connections to the O'Shaughnessy Reservoir contain favorable conditions for breeding



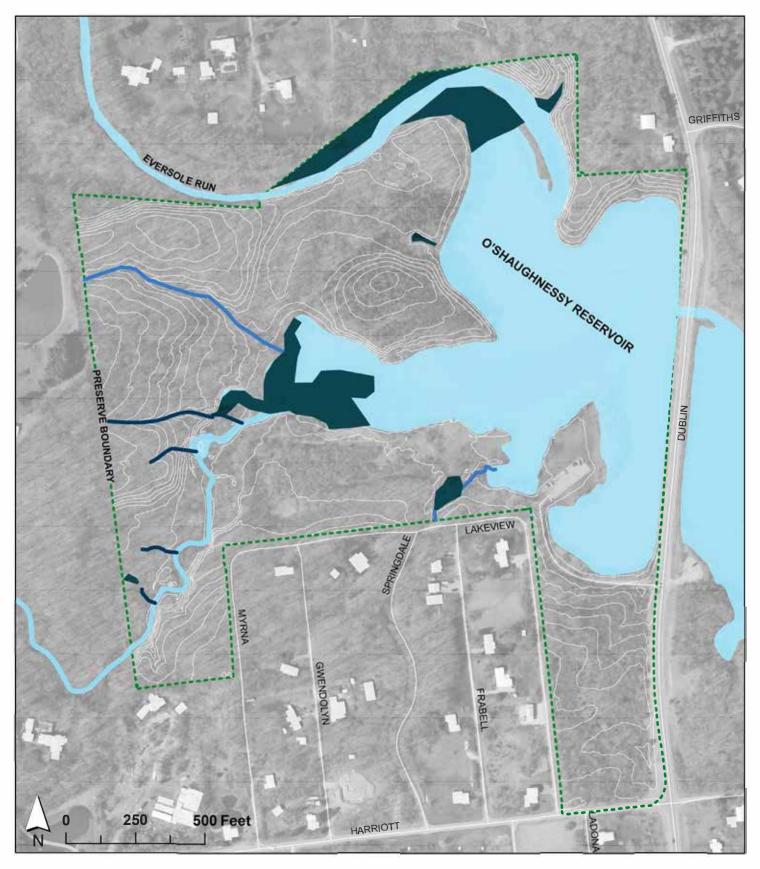
Emergent wetland along O'Shaughnessy Reservoir.

amphibians in the spring. All wetlands provide hydrological benefits by filtering water, retaining sediment, and holding water during flood events. See "O'Shaughnessy Streams & Wetlands" map.



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O'Shaughnessy Streams & Wetlands

Perennial Streams

Intermittent Streams — Ephemeral Streams

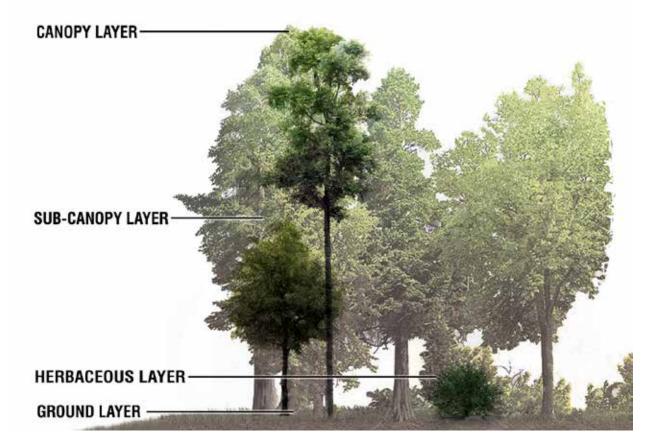
Wetlands

5' Contours



3.3 Vegetation and Habitat

Commonly observed native tree species include sugar maple (*Acer saccharum*), black walnut (*Juglans nigra*), and pin oak (*Quercus palustris*) within upland areas and along stream banks. Black willow (*Salix nigra*) was dominant along the shoreline of O'Shaughnessy Reservoir.



The sub-canopy is relatively open, dominated primarily by immature green ash (*Fraxinus pennsylvanica*) and sugar maple (*Acer saccharum*) saplings.

The herbaceous layer is dominated by Canada goldenrod (*Solidago canadensis*), an Ohio native prairie plant that provides important late-season food and shelter for pollinators, and poison ivy (*Toxicodendron radicans*).

See "O'Shaughnessy Habitat Types & Invasive Species" map that illustrates the general vegetation coverage within O'Shaughnessy. The following habitat types were identified:

- 1. Upland Forest
- 2. Emergent Wetland
- 3. Impervious
- 4. Reservoir
- 5. Maintained Lawn

The "O'Shaughnessy Known Species List (2022)" is included as an attachment.



3.3.1 Upland Forest

O'Shaughnessy consists of approximately 50-acres of upland forest, which includes portions of mature forest dominated by large diameter trees. This forest serves as a riparian area, forested area surrounding streams, for the numerous headwater streams and is habitat for a number of plant and animal species, including potential habitat for protected bat species. Bats roost in forests during the summer and often forage along riparian stream corridors like those in O'Shaughnessy.

Two rare plant species can be found within the bottomland hardwood area of O'Shaughnessy: the Drummond's aster and satin brome (*Bromus nottowayanus*). Drummond's aster is a state threatened species in Ohio.





Upland Forest Habitat

Upland Forest Habitat

3.3.2 Reservoir

O'Shaughnessy includes approximately 23-acres of the O'Shaughnessy Reservoir. This reservoir provides vital habitat to fish and other amphibian species. Additionally, the reservoir provides a source of water to areas such as the surrounding emergent wetlands, which increases the water quality of the reservoir.



Reservoir Habitat



Reservoir Habitat



3.3.3 Emergent Wetland

O'Shaughnessy includes approximately 4.1 acres of emergent wetland (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.





Emergent Wetland Habitat

Emergent Wetland Habitat

3.3.4 Maintained Lawn

Approximately 2.89-acres of mowed area is present, located south of the O'Shaughnessy Reservoir. This area represents trails and adjacent recreational area.



Maintained Lawn

3.3.5 Invasive Vegetation

More than 1-acre of the emergent wetland area surrounding the O'Shaughnessy Reservoir is dominated by reed canary grass (*Phalaris arundinacea*). Reed canary grass is a highly adaptive plant originally introduced for livestock feed in the late 1800s. It prefers poorly drained soils such as those found in wetlands, along streams, and within roadside ditches. Reed canary grass is highly aggressive and can quickly take over native species in an area. Removal of this invasive species is a priority.



Autumn olive (*Elaeagnus umbellata*) was also found within the southern portion of O'Shaughnessy, covering approximately 0.29-acre, and was considered less of a threat than the reed canary grass.

Other invasive species present in smaller numbers include:

- honeysuckle (*Lonicera* spp)
- callery pear (*Pyrus calleryana*)
- multiflora rose (*Rosa multiflora*)

See "O'Shuaghnessy 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). O'Shaughnessy 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 are known to exist within O'Shaughnessy. Previous survey information suggests the ODNR state threatened Drummond's aster (*Symphyotrichum drummondii*) may exist within O'Shaughnessy. Drummond's aster is a perennial wildflower with lavender or light violet flowerheads.

The following records or ranges for wildlife were identified within O'Shaughnessy:

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 white-nose syndrome, a deadly disease affecting cave-dwelling 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 O'Shaughnessy 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 O'Shaughnessy provide suitable food sources for monarch butterflies.



3.5 Wildlife

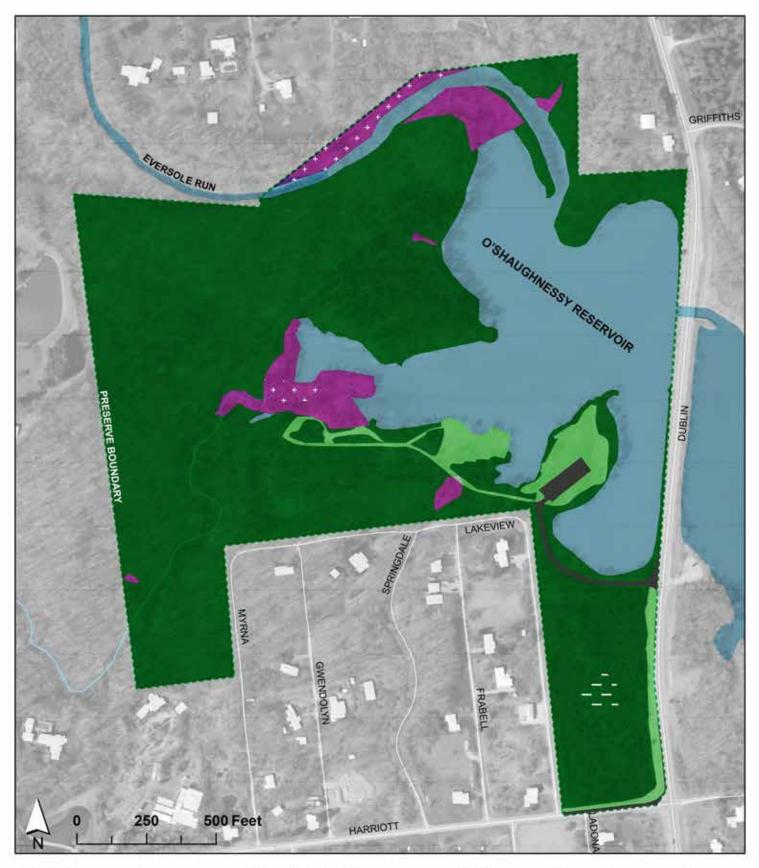
With its wide range of habitat types, O'Shaughnessy supports healthy and diverse populations of mammals, birds, reptiles, amphibians, and fish. A species list of wildlife documented in O'Shaughnessy is attached.

Northern two lined salamander (*Eurycea bislineata*) larvae were documented within the southern perennial stream. It is likely this portion of O'Shaughnessy contains a breeding population of these species, as the stream is surrounded by mostly undisturbed forest.

O'Shaughnessy supports over 45 species of breeding birds and over 100 species of migrating birds, making the area very popular for birding. According to National Audubon Society, the Scioto River is an important area for birds and is within a migratory bird route.

O'Shaughnessy Reservoir contains a sustainable population of sportfish, making it a common retreat for anglers. Fish species found in the Reservoir include: black crappie (*Pomoxis nigromaculatus*), white crappie (*Pomoxis annularis*), largemouth bass (*Micropterus salmoides*), smallmouth bass (*Micropterus dolomieu*), white bass (*Morone chrysops*), and channel catfish (*Ictalurus punctatus*). The Ohio Division of Wildlife (DOW) also annually stocks saugeye (*Sander canadensis x Sander vitreus*) and hybrid striped bass (*Morone chrysops x Morone saxatilis*) in the Reservoir.





O'Shaughnessy Habitat Types & Invasive Species

Habitat Types:





N (4

Maintained Lawn _-. (40.3 acres) _-.

Invasive Species:

Autumn Olive

+ Reed Canary Grass + (1.18 acres)



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

O'Shaughnessy Nature Preserve contains a forest with several free-flowing streams that drain directly into the O'Shaughnessy Reservoir, an important source of drinking water for central Ohio. The emergent wetland along the shoreline reservoir filters the reservoir and is important habitat for wildlife. Continued protection of the natural resources within O'Shaughnessy is vital for future generations. Visitor impacts should be limited to pedestrian trail use only. It is recommended that park users have a "leave no trace" mentality when visiting O'Shaughnessy.

It is important to understand the breadth of natural resources within O'Shaughnessy, in order to prioritize management activities. One consideration would be to update the listing of observed species of flora and fauna within O'Shaughnessy 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 reed canary grass and autumn olive, are dominant in areas of O'Shaughnessy. Honeysuckle, callery pear, and multiflora rose are also present. 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 O'Shaughnessy is pursued, removal of reed canary grass should be the first priority. This is due to the aggressive nature of reed canary grass and extensive coverage throughout the emergent wetland habitat. Native herbaceous plants should be planted in areas where heavily dominated invasive species areas have been cleared.

Removal efforts for cases of extensive reed canary grass coverage such as this are best performed by applying an aquatic safe herbicide. 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 invasive plants are removed.

4.2 Conservation

4.2.1 Visitor Management

To provide a safe and enjoyable visitor experience while protecting O'Shaughnessy's natural resources, CRPD will use strategies to achieve resource protection. These practices 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 O'Shaughnessy through volunteer event signs posted within O'Shaughnessy and posted on social media. Events may include education on encroachment, invasive species removal, litter pick-up events, plantings, and others.

4.3 Enhancement

4.3.1 Signage

One O'Shaughnessy Nature Preserve sign is present. Install Nature Preserve rules signage at the main access points. Due to O'Shaughnessy being surrounded by residential development, additional signage could be considered to aid in limiting encroachments. Educational signage may also be installed, regarding some of the natural resources.

4.3.2 Stream Restoration

One area of potential stream restoration was identified. The south bank of the perennial unnamed tributary to O'Shaughnessy Reservoir in the southwest portion of O'Shaughnessy is steep and severely eroding. These slopes could be graded and reforested to mitigate erosion and reconnect the stream to its floodplain.

4.3.3 Habitat Restoration

An open field is being mowed north of Gwendolyn Drive and east of the perennial unnamed tributary to O'Shaughnessy Reservoir. Watershed



Perennial unnamed tributary to O'Shaughnessy Reservoir with eroding banks.

Management should cease mowing in this area to allow the prairie to revert back to forest. Drummond's aster and satin brome are forest dwelling plants and commonly found along or near streams. The forested area of O'Shaughnessy provides suitable habitat and should be expanded in order to allow more habitat for these two plant species.



Mowing takes places on the southernmost peninsula of the O'Shaughnessy. It is suggested that this area be converted to a pollinator area. This management action would reduce the amount of mowing needed, create critical habitat for pollinators, and educate the public on the importance of pollinators.



ATTACHMENTS

O'Shaughnessy Known Species List (2022)		
Pla	ints	
Scientific Name	Common Name	
Acer negundo	Boxelder	
Acer rubrum	Red Maple	
Acer saccharinum	Silver Maple	
Acer saccharum	Sugar Maple	
Achillea millefolium	Yarrow	
Actaea alba	White Baneberry	
Aesculus glabra	Ohio Buckeye	
Agrimonia gryposepala	Agrimony	
Agrimonia parviflora	Swamp Agrimony	
Alliaria petiolata	Garlic Mustard	
Allium canadense	Wild Onion	
Allium tricoccum	Wild Leek	
Ambrosia artemisiifolia	Common Ragweed	
Ambrosia trifida	Giant Ragweed	
Anemone virginiana	Tall Anemone	
Apocynum cannabinum	Dogbane	
Arabis laevigata	Rock-cress	
Arctium minus	Common Burdock	
Arisaema triphyllum	Jack-in-the-pulpit	
Asarum canadense	Canadian Wild Ginger	
Asclepias incarnata	Swamp Milkweed	
Asclepias syriaca	Common Milkweed	
Aster novae-angliae	New England Aster	
Aster pilosus	White Heath Aster	
Aster racemosus	Small-headed Aster	
Aster sagittifolius	Arrow-leaved Aster	
Aster undulatus	Zigzag Aster	
Berberis thunbergii	Barberry	
Bidens frondosa	Devil's Beggarticks	
Boehmeria cylindrica	False Nettle	
Botrychium virginianum	Rattlesnake Fern	
Brachyelytrum erectum	Brachyelytrum	
Bromus nottowayanus	Satin Brome	
Calystegia sepium	Bindweed	
Camassia scilloides	Wild Hyacinth	
Cardamine concatenata	Cut-leaved Toothwort	
Carex albursina	Wood Sedge	
Carex amphibola	Riverbank Sedge	

O'Shaughnessy Known Species List (2022)		
Plants		
Scientific Name	Common Name	
Carex cephalophora	Oak Sedge	
Carex communis	Communal Sedge	
Carex complanata	Hirsute Sedge	
Carex davisii	Davis's Sedge	
Carex digitalis	Slender Woodland Sedge	
Carex emoryi	Emory's Sedge	
Carex gracillima	Graceful Sedge	
Carex granularis	Limestone Meadow Sedge	
Carex Grayii	Gray's Sedge	
Carex intumescens	Bladder Sedge	
Carex jamesii	James's Sedge	
Carex lupulina	Hop Sedge	
Carex oligocarpa	Few-fruited Sedge	
Carex pensylvanica	Pennsylvania Sedge	
Carex rosea	Rosy Sedge	
Carex shortiana	Short's Sedge	
Carex sparganioides	Bur-reed Sedge	
Carex stipata	Awl-fruited Sedge	
Carex stricta	Tussock Sedge	
Carpinus caroliniana	Ironwood	
Carya ovata	Shagbark Hickory	
Carya tomentosa	Mockernut Hickory	
Catalpa speciosa	Northern catalpa	
Celtis occidentalis	Hackberry	
Cercis canadensis	Redbud	
Cichorium intybus	Chicory	
Cinna arundinacea	Stout Wood Reed	
Circaea lutetiana	Enchanter's Nightshade	
Cirsium altissimum	Tall Thistle	
Claytonia virginica	Spring-beauty	
Clematis virginiana	Virgin's-bower	
Cornus amomum	Silky Dogwood	
Cornus florida	Flowering Dogwood	
Corylus Americana	Hazelnut	
Cryptotaenia canadensis	Honewort	
Cyperus strigosus	Umbrella-sedge	
Cystopteris fragilis	Fragile Fern	
Dactylis glomerata	Orchard Grass	

O'Shaughnessy Known Species List (2022)		
	ants	
Scientific Name	Common Name	
Danthonia spicata	Poverty Grass	
Datura stramonium	Jimson-weed	
Daucus carota	Queen Anne's Lace	
Diarrhena obovata	Diarrhena	
Dioscorea villosa	Wild Yam	
Elaeagnus umbellata	Autumn Olive	
Eleusine indica	Indian Goosegrass	
Elymus hystrix	Bottlebrush Grass	
Elymus riparius	Riverbank Rye	
Elymus virginicus	Virginia Rye	
Equisetum arvense	Field Horsetail	
Equisetum hyemale	Rough Horsetail	
Erechtites hieracifolia	Pilewort	
Erigeron strigosus	Fleabane	
Erythronium americanum	Yellow Trout Lily	
Euonymus atropurpureus	Eastern Wahoo	
Euonymus fortunei	Wintercreeper	
Euonymus obovatus	Running Strawberry-bush	
Eupatorium perfoliatum	Boneset	
Eupatorium rugosum	White Snakeroot	
Euthamia graminifolia	Flat-top Goldentop	
Fagus grandifolia	Beech	
Festuca arundinacea	Kentucky Fescue	
Festuca ovina	Sheep Fescue	
Festucasubverticillata	Nodding Fescue	
$Floerkia\ proserpina coides$	False Mermaid-weed	
Fraxinus Americana	White Ash	
Fraxinus pennsylvanica	Green Ash	
Galium aparine	Cleavers	
Galium circaezans	Wild Licorice	
Galium concinnum	Shining Bedstraw	
Galium tinctorium	Marsh Bedstraw	
Galium triflorum	Sweet-scented Bedstraw	
Gaura biennis	Biennial Gaura	
Geranium maculatum	Wild Geranium	
Geum canadense	White Avens	
Geum vernum	Spring Avens	
$Gleditsia\ triacanthos$	Honey Locust	

O'Shaughnessy Known Species List (2022)		
Pla	nts	
Scientific Name	Common Name	
Glyceria striata	Fowl Manna Grass	
Hackelia virginiana	Stickseed	
Heliopsis helianthoides	False Sunflower	
Hesperis matronalis	Dame's-rocket	
Hibiscus moscheutos	Swamp Rose Mallow	
Houstonia caerulea	Bluets	
Hydrastis Canadensis	Goldenseal	
Hydrophyllum macrophyllum	Large-leaved Waterleaf	
Hypericum punctatum	Dotted St. John's-wort	
Impatiens capensis	Spotted touch-me-not	
Impatiens pallida	Pale Jewelweed	
Iodanthus pinnatifidus	Purple Rocket	
Iris pseudacorus	Yellow Flag	
Iris versicolor	Northern Blue Flag	
Jeffersonia diphylla	Twinleaf	
Juglans nigra	Black Walnut	
Juncus tenuis	Path Rush	
Juniperus virginiana	Eastern Red Cedar	
Justicia Americana	Water-willow	
Lactuca biennis	Wild Lettuce	
Laportea canadensis	Canadian Wood Nettle	
Leersia virginica	Whitegrass	
Lemna minor	Lesser Duckweed	
Ligustrum vulgare	Privet	
Lindera benzoin	Spicebush	
Lobelia cardinalis	Cardinal Flower	
Lobelia inflata	Indian-tobacco	
Lobelia siphilitica	Great Blue Lobelia	
Lonicera japonica	Japanese Honeysuckle	
Lonicera maackii	Amur Honeysuckle	
Lonicera morrowii	Morrow's Honeysuckle	
Lonicera tatarica	Tartarian Honeysuckle	
Lycopus virginicus	Bugleweed	
Lysimachia ciliata	Fringed Loosestrife	
Lysimachia nummularia	Creeping Jenny	
Lythrum salicaria	Purple Loosestrife	
Maclura pomifera	Osage-orange	
Medicago lupulina	Black Medick	

O'Shaughnessy Known Species List (2022)			
Pla	Plants		
Scientific Name	Common Name		
Melilotus alba	White Sweet Clover		
Menispermum canadense	Canada Moonseed		
Microstegium vimineum	Japanese Stiltgrass		
Mimulus ringens	Monkeyflower		
Monarda clinopodia	Basil Bee-balm		
Morus alba	White Mulberry		
Morus rubra	Red Mulberry		
Oenothera biennis	Evening Primrose		
Ornithogalum umbellatum	Star-of-Bethlehem		
Ostrya virginiana	Hop-hornbeam		
Oxalis grandis	Giant Wood-sorrel		
Oxalis stricta	Wood-sorrel		
Parthenocissus quinquefolia	Virginia Creeper		
Persicaria amphibia	Water Smartweed		
Persicaria maculosa	Redshank		
Phalaris arundinacea	Reed Canary Grass		
Phlox divaricata	Wild Blue Phlox		
Phragmites australis	Common Reed		
Phyla lanceolata	Fog-fruit		
Phytolacca Americana	Pokeweed		
Pilea fontana	Coolwort		
Pilea pumila	Canadian Clearweed		
Pinus strobus	Eastern White Pine		
Pinus sylvestris	Red Pine		
Plantago lanceolata	English Plantain		
Plantago rugelii	American Plantain		
Platanus occidentalis	American Sycamore		
Poa compressa	Canada Bluegrass		
Poa nemoralis	Bluegrass		
Poa pratensis	Kentucky Bluegrass		
Poa sylvatica	Woodland Bluegrass		
Poa trivialis	Rough Bluegrass		
Podophilum peltatum	May-apple		
Polemonium reptans	Greek Valerian		
Polygonatum biflorum	Two-flowered Solomon's-seal		
Polygonatum pubescens	Hairy Solomon's-seal		
Polygonum amphibium	Water Smartweed		
Polygonum persicaria	Lady's-thumb		

O'Shaughnessy Known Species List (2022)		
Pla	ants	
Scientific Name	Common Name	
Polygonum punctatum	Dotted Smartweed	
Polymnia Canadensis	Leafcup	
Populus deltoides	Eastern Cottonwood	
Prenanthes altissima	Lion's-foot	
Prunella vulgaris	Heal-all	
Prunus serotina	Black Cherry	
Prunus virginiana	Choke-cherry	
Pyrus calleryana	Callery Pear	
Pyrus malus	Apple	
Quercus alba	White Oak	
Quercus bicolor	Swamp White Oak	
Quercus macrocarpa	Bur Oak	
Quercus muhlenbergii	Yellow Oak	
Quercus palustris	PinOak	
Quercus rubra	Northern Red Oak	
Ranunculus abortivus	Kidney-leaved Crowfoot	
Ranunculus hispidus	Hairy Buttercup	
Ranunculus recurvatus	Hooked Crowfoot	
Rhamnus cathartica	Buckthorn	
Rhus aromatica	Fragrant Sumac	
Ribes cynosbati	Dogberry	
Robinia pseudoacacia	Black Locust	
Rosa multiflora	Multiflora Rose	
Rubus allegheniensis	Blackberry	
Rudbeckia hirta	Black-eyed Susan	
Rudbeckia laciniata	Green-headed Coneflower	
Ruellia strepens	Wild Petunia	
Rumex crispus	Curly Dock	
Rumex verticillatus	Swamp Dock	
Sagittaria latifolia	Common Arrowhead	
Salix amygdaloides	Peachleaf Willow	
Salix discolor	Pussy Willow	
Salix eriocephala	Diamond Willow	
Salix exigua	Sandbar Willow	
Salix nigra	Black Willow	
Sambucus canadensis	Elderberry	
Sanguinaria canadensis	Bloodroot	
Sanicula gregaria	Clustered Snakeroot	

O'Shaughnessy Known Species List (2022)			
	Plants		
Scientific Name	Common Name		
Sanicula marilandica	Maryland Snakeroot		
Saururus cernuus	Lizard's Tail		
Scirpus atrovirens	Dark-green Bulrush		
Scirpus validus	Soft-stem Bulrush		
Scutellaria nervosa	Nerved Skullcap		
Senecio aureus	Golden Ragwort		
Senecio glabellus	Butterweed		
Senecio obovatus	Round-leaved Ragwort		
Silene stellata	Starry Catchfly		
Sisyrinchium angustifolium	Blue-eyed-grass		
Smilacina racemosa	False Solomon's-seal		
Smilax hispida	Bristly Greenbrier		
Solidago caesia	Blue-stemmed Goldenrod		
Solidago canadensis	Canada Goldenrod		
Solidago flexicaulis	Zigzag Goldenrod		
Solidago ulmifolia	Elm-leaved Goldenrod		
Sphenopholis intermedia	Slender Wedgegrass		
Sphenopholis nitida	Shiny Wedgescale		
Symphyotrichum drummondii	Drummond's Aster		
Taraxacum officinale	Dandelion		
Thalictrum dioicum	Early Meadow-rue		
Thaspium trifoliatum	Meadow-parsnip		
Tilia americana	Basswood		
Tovara virginiana	Jumpseed		
Toxicodendron radicans	Poison Ivy		
Tridens flavus	Grease Grass		
Trifolium pratense	Red Clover		
Trillium grandiflorum	Large-flowered Trillium		
Trillium sessile	Toadshade		
Triosteum aurantiacum	Horse-gentian		
Ulmus americana	American Elm		
Ulmus rubra	Red Elm		
Uvularia grandiflora	Large-flowered Bellwort		
Verbena urticifolia	White Vervain		
Verbesina alternifolia	Wingstem		
Vernonia gigantea	Tall Ironweed		
Veronica officinalis	Common Speedwell		
Viburnum acerifolium	Maple-leaved Viburnum		

O'Shaughnessy Known Species List (2022)	
Plants	
Scientific Name	Common Name
Viburnum dentatum	Southern Arrowwood
Viburnum opulus	Guelder-rose
Viburnum prunifolium	Black-haw
Viola pubescens	Downy Yellow Violet
Viola sororia	Common Blue Violet
Viola striata	Creamy White Violet
Vitis aestivalis	Summer Grape
Vitis riparia	Riverbank Grape
Zanthoxylum americanum	Prickly-ash

O'Shaughnessy Known Species List (2022)		
Amphibians		
Scientific Name	Common Name	
Anaxyrus americanus	American Toad	
Dryophytes versicolor	Gray Tree Frog	
Eurycea bislineata	Northern Two-lined Salamander	
Lithobates catesbeianus	Bullfrog	
Lithobates pipiens	Northern Leaopard Frog	
Pseudacris crucifer	Spring Peeper	

O'Shaughnessy Known Species List (2022)		
Insects		
Scientific Name	Common Name	
Celastrina neglecta	Summer Azure	
Cercyonis pegala	Wood Nymph	
Colias eurytheme	Orange Sulphur	
Colias philodice	Clouded Sulphur	
Epargyreus clarus	Silver-spotted Skipper	
Limenitis arthemis	Red-spotted Purple	
Megisto cymela	Wood Satyr	
Nymphalis antiopa	Mourning Cloak	
Papilio cresphontes	Giant Swallowtail	
Papilio glaucus	Tiger Swallowtail	
Pieris rapae	Cabbage White	
Polygonia c-album	Comma Butterfly	
Vanessa cardui	Painted Lady	

O'Shaughnessy Known Species List (2022)		
Birds		
Scientific Name	Common Name	
Accipiter cooperii	Cooper's Hawk	
Agelaius phoeniceus	Red-winged Blackbird	
Aix sponsa	Wood Duck	
Anas acuta	Northern Pintail	
Anas platyrhynchos	Mallard	
Archilochus colubris	Ruby-throated Hummingbird	
Ardea alba	Great Egret	
Ardea herodias	Great Blue Heron	
Aythya americana	Redhead	
Aythya marila	Greater Scaup	
Baeolophus bicolor	Tufted Titmouse	
Bombycilla cedrorum	Cedar Waxwing	
Botaurus lentiginosus	American Bittern	
Branta canadensis	Canada Goose	
Buteo jamaicensis	Red-tailed Hawk	
Butorides virescens	Green Heron	
Calidris alpina	Dunlin	
Calidris melanotos	Pectoral Sandpiper	
Calidris pusilla	Semipalmated Sandpiper	
Cardinalis cardinalis	Northern Cardinal	
Chaetura pelagica	Chimney Swift	
Charadrius vociferus	Killdeer	
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	
Haemorhous mexicanus	House Finch	
Hirundo rustica	Barn Swallow	
Hydroprogne caspia	Caspian Tern	
Hylocichla mustelina	Wood Thrush	
Icterus galbula	Baltimore Oriole	
Larus argentatus	Herring Gull	
Larus delawarensis	Ring-billed Gull	
Leuconotopicus villosus	Hairy Woodpecker	

O'Shaughnessy Known Species List (2022)		
Birds		
Scientific Name	Common Name	
Lophodytes cucullatus	Hooded Merganser	
Megaceryle alcyon	Belted Kingfisher	
Melanerpes carolinus	Red-bellied Woodpecker	
Melanerpes erythrocephalus	Red-headed Woodpecker	
Meleagris gallopavo	Wild Turkey	
Melospiza melodia	Song Sparrow	
Molothrus ater	Brown-headed Cowbird	
Myiarchus crinitus	Great Crested Flycatcher	
Passer domesticus	House Sparrow	
Passerina cyanea	Indigo Bunting	
Petrochelidon pyrrhonota	CliffSwallow	
Phasianus colchicus	Ring-necked Pheasant	
Pheucticus ludovicianus	Rose-breasted Grosbeak	
Picoides pubescens	Downy Woodpecker	
Pipilo erythrophthalmus	Eastern Towhee	
Piranga olivacea	Scarlet Tanager	
Poecile carolinensis	Carolina Chickadee	
Polioptila caerulea	Blue-gray Gnatcatcher	
Setophaga coronata	Yellow-rumped Warbler	
Setophaga dominica	Yellow-throated Warbler	
Sialia sialis	Eastern Bluebird	
Sitta carolinensis	White-breasted Nuthatch	
Spatula discors	Blue-winged Teal	
Spinus pinus	Pine Siskin	
Spinus tristis	American Goldfinch	
Spizella passerina	Chipping Sparrow	
Spizella pusilla	Field Sparrow	
Spizelloides arborea	American Tree Sparrow	
Stelgidopteryx serripennis	Northern Rough-winged Swallow	
Sturnus vulgaris	European Starling	
Tachycineta bicolor	Tree Swallow	
Tringa flavipes	Lesser Yellowlegs	
Troglodytes aedon	House Wren	
Troglodytes aedon	House Wren	
Vireo flavifrons	Yellow-throated Vireo	
Vireo gilvus	Warbling Vireo	
Vireo olivaceus	Red-eyed Vireo	
Zenaida macroura	Mourning Dove	

O'Shaughnessy Known Species List (2022)		
Mammals		
Scientific Name	Common Name	
Odocoileus virginianus	White-tailed Deer	

O'Shaughnessy Known Species List (2022)		
Reptiles		
Scientific Name	Common Name	
Regina septemvittata	Queen Snake	