



# RUSH RUN PARKLAND NATURE PRESERVE MANAGEMENT PLAN 2023



# **RUSH RUN PARKLAND 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.

# **Rush Run Parkland Nature Preserve**



370 Broad Meadows Blvd. Columbus, OH 43085

Rush Run Nature Preserve features 39 acres of wooded ravines, wetlands, and streams that join the Olentangy River. Located just south of Antrim Lake within a residential area, the nature preserve retains natural beauty as a mature forest.





# **Features and Amenities**

### **Features**

- Terrace overlooking the Olentangy River
- Mature upland forest with large diameter trees
- Forested wetlands with vernal pools, providing amphibian habitat
- Population of eastern redback salamanders

# **Amenities**

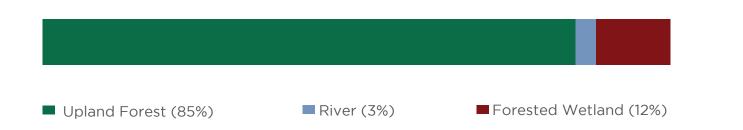
Trails

# **Listed Species**

- Indiana bat\*
   (Myotis sodalist)
- Snuffbox mussel\* (Epioblasma triquetra)
- Northern long-eared bat\* (Myotis septentrionalis)
- Monarch butterfly<sup>^</sup>
   (Danaus plexippus)

\*Endangered \*\*Threatened \*\*\*Species of Concern ^Candidate Species

# **Habitat**



# Recommendations

To maintain, conserve, and restore Rush Run Parkland Nature Preserve:



Keep the nature preserve in its original state, and limit activities to pedestrian trail use only.



Remove invasive burning bush, honeysuckle, and privet. These species have overtaken native plants, and cover almost 6 acres. Removal of burning bush in this area should be performed first, 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 Rush Run banks and consider Rush Run for a future stream restoration. Several studies have been performed on Rush Run due to its heavily incised channel and disconnection with the adjacent floodplain.

# **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

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# **TABLE OF CONTENTS**

# **RUSH RUN EXECUTIVE SUMMARY**

1	INTRODUCTION	
	1.1 COLUMBUS NATURE PRESERVES OVERVIEW	
2	SITE HISTORY AND DESCRIPTION	2
	2.1 Preserve History	
3	AMENITIES AND NATURAL RESOURCES	
	3.1 AMENITIES 3.2 LANDSCAPE CONTEXT 3.3 VEGETATION AND HABITAT 3.4 LISTED/PROTECTED PLANT AND WILDLIFE SPECIES 3.5 WILDLIFE	8 12
4	RECOMMENDATIONS	14
	4.1 PROTECTION	15
Rus Rus	ST OF MAPS sh Run Nature Preservesh Run Streams & Wetlandssh Run Habitat Types & Invasive Species	7

# **ATTACHMENTS**

Rush Run Known Species List (2022)



# 1 INTRODUCTION

# 1.1 Columbus Nature Preserves Overview

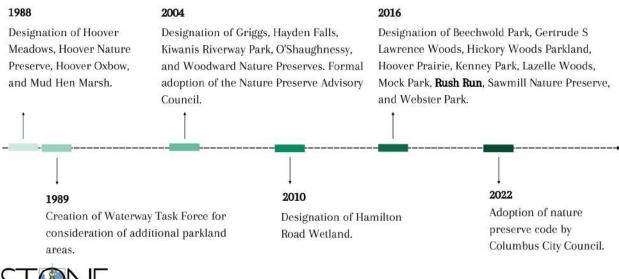
The Columbus Recreation and Parks Department (CRPD) works to preserve the local natural heritage for the Columbus community to enjoy. CRPD recognizes environmentally unique and sensitive areas as designated nature preserves. The Columbus Nature Preserve system is one of a few city nature preserve programs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

Rush Run Nature Preserve ("Rush Run") is approximately 39-acres in size, consisting of Franklin County Parcel ID #100-003171-00. It was designated a nature preserve in 2016. Rush Run was originally acquired with Federal Open Space funds as a result of the construction of the nearby State Route 315, in 1969. Once named Broadmeadows Park, Rush Run was formally renamed in 1994.

# 2.2 Location Description

Rush Run's address is 370 Broad Meadows Boulevard, Columbus, Ohio 43085. Rush Run is located in the neighborhood of Worthington, east of the Olentangy River and Bike trail, south of Antrim Lake, and west of North High Street.

Rush Run is situated within the residential areas of Township, the City of Columbus, City of Worthington and the Village of Riverlea and adjacent to the Olentangy River and Rush Run Creek bisects the Preserve. Additionally, Rush Run provides some of the wooded green space within the area.

Surrounding land use includes residential housing intermixed with forested areas, that includes the Olentangy River and associated riparian forest. See "Rush Run Nature Preserve" location map.



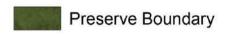
Established natural trail through upland forest.





370 BROAD MEADOWS BLVD, COLUMBUS OH 43085

# **Rush Run Nature Preserve**







# 3 AMENITIES AND NATURAL RESOURCES

# 3.1 Amenities

There are numerous entries into Rush Run from surrounding neighborhoods and several trails. All trails are natural trails. The trails exist on both sides (north and south) of Rush Run. There is also one bridge over an unnamed tributary within the southern portion of Rush Run. Traversing Rush Run is difficult.

# 3.2 Landscape Context

Rush Run contains a stream valley flowing through the center of the Nature Preserve, active floodplain and a linear



Forested wetland flowing into the Olentangy River.

wetland to the north, and a high terrace to the south. Elevation is generally highest within the southern area and lowest within the northern area, with a relief greater than 30 feet. The FEMA Regulatory Floodway, 100-year floodplain, and 500-year floodplain exist along the Olentangy River and reach into the Rush Run stream valley and a wetland area. These floodplain areas provide habitat for fish and wildlife, recharge groundwater, and improve surface water quality.

The following soils are mapped within Rush Run:

- Cardington-Urban land complex with steep slopes is described as very deep, moderately well drained soils composed of debris that accumulate at the bottom of a glacier.
- Ross silt loam has minimal slopes and is dominated by loamy alluvium. It is associated with floodplains and is occasionally flooded.
- Eldean-Urban land complex with moderate slopes is associated with moraines, kames, and outwash terraces. It includes silty and clayey outwash over sandy and gravelly outwash.
- **Medway silt loam**, dominated by fine loamy alluvium, is associated with floodplains and is occasionally flooded.

### 3.2.1 Streams

Rush Run is located in the Lower Olentangy Watershed, specifically the Mouth of the Olentangy River Watershed (Ohio Environmental Protection Agency (EPA) Hydrologic Unit (HUC) #050600011103). This watershed is located within a largely urban environment, making Rush Run an important feature for urban wildlife.



The Olentangy River is a major river which flows through Columbus from north at the Delaware Dam to south confluence with the Scioto River. It is designated as a Warmwater Habitat stream aquatic life use where it flows through Rush Run, according to the Ohio EPA. The Olentangy River provides high-quality aquatic habitat for State-listed endangered and threatened aquatic species.

According to an Environmental Covenant recorded by the Franklin County Auditor dated June 3, 2015, a total of 1,300 feet of Rush Run was restored. This portion of Rush Run and an unnamed tributary



Rush Run, a perennial stream, considered a high-quality warm-water habitat stream.

stream within the park are protected. According to the Ohio EPA, Rush Run has an aquatic life use of Warmwater Habitat stream.

In 2007, a Primary Headwater Habitat Evaluation (HHEI) assessment was completed for Rush Run by the Friends of the Lower Olentangy Watershed. Rush Run scored an 86 out of 100, indicating the stream is a Class 3 and contains high quality physical habitat. The streambed consisted mainly of cobble and gravel.

The Nature Preserve also contains a perennial unnamed tributary to Rush Run, which flows into Rush Run from the southeast. In total, it is estimated Rush Run contains around 5,000 linear feet of stream. See "Rush Run Streams & Wetlands" map.

Excessive erosion is present along Rush Run adjacent to Walnut Grove Cemetery. In several areas, Rush Run is heavily incised and unable to flood the adjacent floodplains appropriately, leading to increased erosion.



A shallow depth section of the Olentangy River.



# 3.2.2 Wetlands

Rush Run includes about 4.6-acres of forested wetlands, several of which include vernal pools for breeding amphibians. The vernal pool wetlands are dominated by box elder (*Acer negundo*), cottonwood (*Populus deltoides*), and sycamore saplings (*Platanus occidentalis*). The vernal pools along the Olentangy River are dominated by sycamore, silver maple (*Acer saccharinum*), water willow (*Justicia americana*), and lizard tail (*Saururus cernuus*).

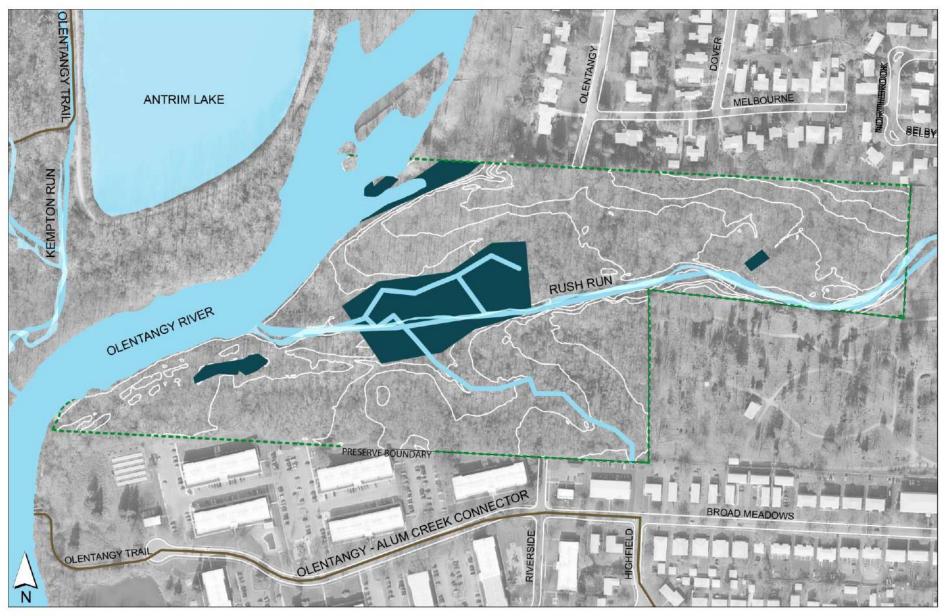


Riverine wetland along the Olentangy River.

The wetlands contain good habitat and hydrology qualities and received a preliminary wetland score of Category 2 using the Ohio EPA Ohio Rapid Assessment Method.

The wetland receives water from Rush Run, the Olentangy River, and drainage from the surrounding landscape. Several wetlands contain depressions that serve as vernal pools for breeding amphibians in the spring. In addition, these wetlands filter Rush Run, the Olentangy River, and other drainage that flows through the wetlands. See "Rush Run Streams & Wetlands" map.



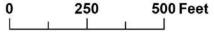


# **Rush Run Streams & Wetlands**

Perennial Streams

Wetlands

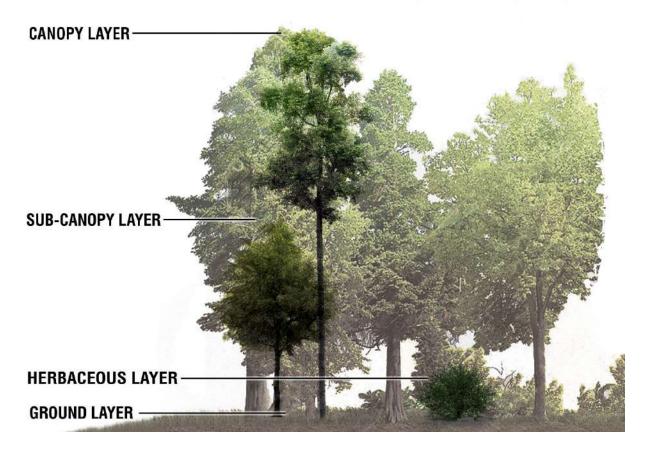
5' Contours





# 3.3 Vegetation and Habitat

Commonly observed native tree species include sugar maple (*Acer saccharum*), box elder, sycamore, and black walnut (*Juglans nigra*).



Commonly observed native sub-canopy species include buckeye (*Aesculus glabra*) and pawpaw (*Asimina triloba*).

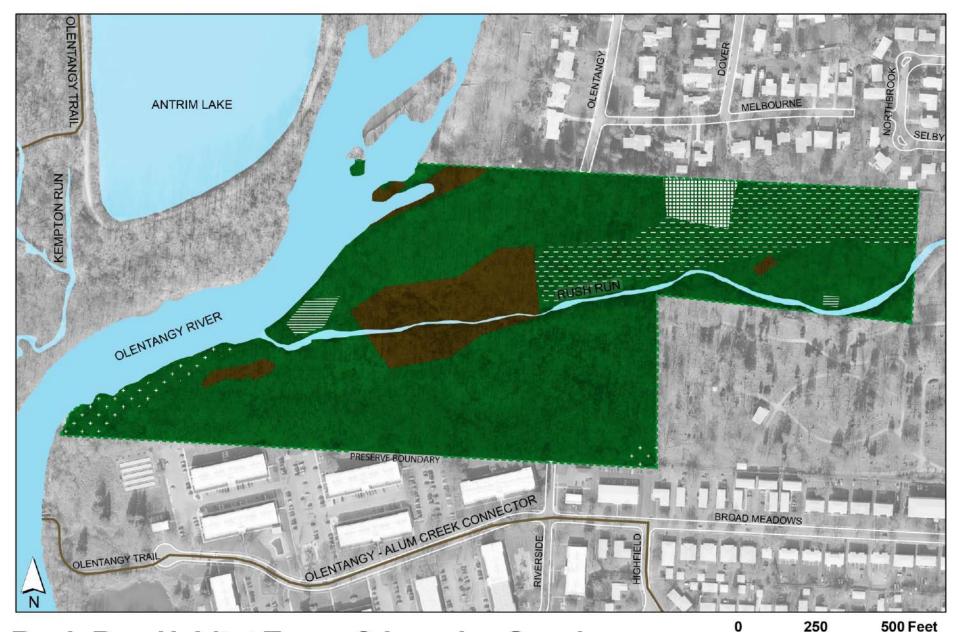
The herbaceous layer is dominated by wood nettle (*Laportea canadensis*) and white avens (*Geum canadense*).

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

- 1. Upland Forest
- 2. River
- 3. Forested Wetland

The "Rush Run Known Species List (2022)" is included as an attachment.



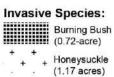


# Rush Run Habitat Types & Invasive Species

Habitat Types:
Forested Wetland
(4.63 acres)

Upland Forest (33.0 acres)









# 3.3.1 Upland Forest

Rush Run consists of 33-acres of upland forest, which includes portions of mature forest dominated by large diameter trees. In 1996, an Ohio State University professor, conducted a preliminary inventory of the botanical and ecological resources and opportunities within Rush Run. From his findings, the professor stated, "The species composition and structure of these forested areas are consistent with what was thought to comprise early-to-mid successional forest patches at the time of the earliest European settlement."

This forest serves as an important riparian area for the numerous headwater streams and Olentangy River and 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 like those in Rush Run.



Upland Forest

**Upland Forest** 





**Upland** Forest

Dense thicket of burning bush.

# 3.3.2 River

Rush Run includes 1.3-acres of the Olentangy River. Habitats along rivers, known as riparian habitats, are of particular importance for plant and wildlife habitat, and are often used by birds, mammals, and amphibians.







Perennial unnamed tributary which flows into Rush Run.

# 3.3.3 Forested Wetland

Rush Run contains numerous forested wetlands (see section 3.2.2 for details). These wetlands contain depressions which serve as vernal pools for breeding amphibians in the spring. Wetlands filter water and improve downstream water quality. They reduce flooding and store carbon. Wetlands also serve as wildlife habitat.



Forested Wetland (adjacent to river)



Forested Wetland

# 3.3.4 Invasive Vegetation

Rush Run is dominated by native species, and areas of Rush Run appear to have had invasive species removed. At the northeastern corner of Rush Run, a 5.7-acre area is dominated by three invasive shrub species: burning bush (*Euonymus alata*), honeysuckle (*Lonicera* spp), and privet (*Ligustrum spp*). Honeysuckle is also present in a small section of the southeastern corner of Rush Run and along the Olentangy River at the southwestern corner. Two small sections of the invasive groundcover and vine wintercreeper (*Euonymus fortunei*) are present.



Based on the extent of coverage, the 5.7-acre area containing burning bush, honeysuckle, and privet is recommended as the first priority for invasive species removal. These three species quickly become established and crowd out native species from the sub-canopy. The resulting dense thicket prevents a native herbaceous layer from growing.

See "Rush Run Habitat Types & Invasive Species" map for an illustration of invasive species locations.

# 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). Rush Run 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.



Deep vernal pool, forested wetland.

### **Plants**

No USFWS federally listed plant species or ODNR state listed plant species ranges or records

are known to exist within Rush Run. However, past references indicate the state potentially threatened nodding rattlesnake root can be found at Rush Run.

The following records or ranges for wildlife were identified within Rush Run:

# **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



Yellow jewelweed (*Impatiens pallida*), present along Rush Run.



their young in the summer, and often return to the same forests. The mature forest in Rush Run 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 Rush Run provide suitable food sources for monarch butterflies.

# Freshwater Mussels

Numerous state listed records for freshwater mussel species are present within the Olentangy River, which is located within Rush Run. All species of freshwater mussels are protected in Ohio. Freshwater mussels have experienced population loss because of poor water quality and development. The following freshwater mussels are recorded within Rush Run:



Northern water snake within Rush Run.

• **snuffbox** (*Epioblasma triquetra*) – State and Federally Endangered. The snuffbox is generally triangular-shaped, and has a yellow, green or brown shell interrupted with green rays, blotches or chevron-shaped lines.

# 3.5 Wildlife

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

Freshwater mussels, which are protected in the state of Ohio, are documented in the Olentangy River.

Eastern redback salamanders are present within the upland forest. Salamander populations are unique within city limits, as they require relatively undisturbed forests and can be sensitive to pollution and other anthropogenic impacts.



# 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

Rush Run Nature Preserve contains a mature forest with approximately 5,000 feet of free-flowing streams, some of which host freshwater mussels. Additional attributes include forested wetlands, providing vernal pools for amphibian breeding. Continued protection of the natural



Eastern redback salamander within upland forest.

resources within Rush Run is vital, to ensure these resources remain 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 Rush Run.

It is important to understand the breadth of natural resources within Rush Run and the uniqueness/rarity of these resources, in order to prioritize management activities. One consideration would be to update the listing of observed species of flora and fauna within Rush Run once every five years. This update should include a review of the botany, birds, amphibians, and fish within Rush Run. 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 burning bush, honeysuckle, privet, and wintercreeper are dominant in areas of Rush Run. 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 Rush Run is pursued, the northeastern corner of the preserve, which includes burning bush, honeysuckle, and privet, should be the first priority. This is due to the large extent of this area and the aggressive nature of these species. Native



herbaceous shrubs, such as pawpaw and buckeye, 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 Rush Run 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 invasive plants are removed.

### 4.2 Conservation

# 4.2.1 Visitor Management

To provide a safe and enjoyable visitor experience while protecting Rush Run'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

The Friends of Rush Run was organized around 1995 to promote restoration of the park and stream, advance public education about natural areas, and to continue cleanup efforts. CRPD should continue to partner with volunteers pertaining to invasive plant removals in Rush Run.

Engage neighbors and community members around Rush Run through volunteer event signs posted in Rush Run 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

Install signs identifying Rush Run as a Nature Preserve, along with a summary of the Nature Preserve regulations, at the main access points along Olentangy Boulevard and Riverside Drive. Additional signage along the preserve boundaries is recommended to aid in limiting encroachments. Educational signage may also be installed, regarding some of the unique natural resources.





# 4.3.2 Stream Restoration

Rush Run is heavily incised and unable to flood the adjacent floodplains appropriately, which leads to increased erosion. A "Stormwater Runoff Reduction in the Rush Run Watershed" dated 2018 suggested incorporating green infrastructure (e.g. bioswales) to promote infiltration and reduce storm water flow into Rush Run. In 2020 the "Rush Run Soil-

Bioengineered Stream Restoration" report, suggests the use of log-type retaining walls and fascines (bundles of sticks), as well as adjusting the channel geometry. Both these documents were sponsored by the Friends of the Lower Olentangy Watershed (FLOW), which is a non-profit organization in Columbus that partnered with Ohio State University Capstone students for these studies.



Incised banks and steep erosion along Rush Run.





Rush Run Known Species List (2022)		
	Plants	
Scientific Name	Common Name	
Acalypha rhomboidea	Rhomboid Mercury	
Acalypha virginica	Virginia Threeseed Mercury or	
	Virginia Copperleaf	
Acer negundo	Boxelder Maple	
Acer nigrum	Black Maple	
Acer saccharinum	Silver Maple	
Acer saccharum	Sugar Maple	
$Actaea\ alba$	White Baneberry	
Aesculus glabra	Ohio Buckeye	
Agrimonia pubescens	Downy Agrimony	
Agrostis hyemalis	Winter Bentgrass	
Alisma subcordatum	American Water Plantain	
Alliaria petiolata	Garlic Mustard	
Allium tricoccum	Ramp	
Amaranthus tuberculatus	Roughfruit Amaranth	
Ambrosia trifida	Giant Ragweed	
Ammannia robusta	Grand Redstem	
Anemone virginiana	Tall Thimbleweed	
Anemonella thalictroides	Rue Anemone	
Apocynum cannabinum	Indian Hemp	
Arctium minus	lesser Burdock	
Asarum canadense	Canadian Wild Ginger	
Asclepias incarnata	Swamp Milkweed	
Asimina triloba	American Papaw	
Aster cordifolius	Blue wood-aster	
Aster lanceolatus	Panicled Aster	
Aster lateriflorus	Calico Aster	
Aster racemosus	Small White American-aster	
Aster sagittifolius	Arrow-leaved Aster	
Aster shortii	Broadleaf Goldenrod	
Barbarea vulgaris	Yellow Rocket	
Berberis thunbergii	Japanese Barberry	
Bidens cernua	Nodding Beggarticks	
Bidens frondosa	Devil's Beggar-ticks	
Bidens vulgata	Tall Beggarticks	
Boehmeria cylindrica	Small-spiked False Nettle	
Camassia scilloides	Wild Hyacinth	
Cardamine bulbosa	Cut-leaf Toothwort	

Rush Run Known Species List (2022)		
	Plants	
Scientific Name	Common Name	
Cardamine hirsuta	Hairy Bittercress	
Carex amphibola	Creek Sedge	
Carex emoryi	Emory's Sedge	
Carex grayii	Gray Sedge	
Carex jamesii	James's Sedge	
Carex laxiflora	Broad loose-flowered Sage	
Carex stipata	Awl Fruited Sedge	
Carpinus caroliniana	Ironwood	
Carya cordiformis	Bitternut Hickory	
Carya glabra	Sweet Pignut Hickory	
Carya ovata	Shagbark Hickory	
Catalpa ovata	Yellow Catalpa	
Celtis occidentalis	Common Hackberry	
Chenopodium album	Lambsquarters	
Cinna arundinacea	Sweet Woodreed	
Circaea lutetiana	Broad-leaved Enchanter's	
	Nightshade	
Conium maculatum	Posion Hemlock	
Crataegus crusgalli	Cockspur Thorn	
Crataegus sp.	Hawthorne	
Cryptotaenia canadensis	Canadian Honewort	
Cuscuta gronovii	Swamp Dodder	
Cyperus bipartitus	Slender Flatsedge	
Cyperus erythrorhizos	Red-root Flatsedge	
Cyperus ferruginescens	Engelmann's Flatsedge	
Cyperus squarrosus	Bearded Flatsedge	
Cyperus strigosus	Straw-colored Flatsedge	
Digitaria sanguinalis	Hairy Crabgrass	
$Echinochloa\ muricata$	Rough Barnyard Grass	
$Echinochloa\ walteri$	Walter's Barnyard Grass	
$Echinocystis\ lobata$	Wild Cucumber	
Eclipta alba	False Daisy	
$Eleocharis\ erythropoda$	Bald Spikerush	
Eleocharis obtusa	Blunt Spikerush	
Elymus riparius	Riverbank Wild Rye	
Elymus virginicus	Virginia Wild Rye	
Eragrostis frankii	Sandbar Lovegrass	
Eragrostis hypnoides	Creeping Lovegrass	
Eragrost is  spectabil is	Purple Lovegrass	

Rush Run Known Species List (2022)		
	ants	
Scientific Name	Common Name	
Erechtites hieracifolia	Pilewort	
Erythronium Americanum	Yellow Trout-lily	
Euonymus alatus	Winged Burning-bush	
Euonymus atropurpureus	Eastern Wahoo	
Euonymus fortunei	Fortune's Spindle	
Euonymus obovatus	Running Strawberry Bush	
Eupatorium maculatum	Spotted Joe-pye Weed	
Eupatorium perfoliatum	Common Boneset	
Eupatorium rugosum	White Snakeroot	
Fagus grandifolia	American Beech	
Fraxinus americana	White Ash	
Fraxinus pennsylvanica	Green Ash	
Fraxinus quadrangulata	Blue Ash	
Galium spp.	Bedstraw	
Geranium maculatum	Cranesbill	
Geum canadense	White Avens	
Geum virginianum	Cream Avens	
Glechoma hederacea	Ground Ivy	
Gleditsia triacanthos	Honey Locust	
Glyceria striata	Fowl Manna Grass	
Hackelia virginiana	Virginia Stickseed	
Helenium autumnale	Sneezeweed	
Hemerocallis fulva	Day Lily	
Hesperis matronalis	Dame's Rocket	
Hydrangea arborescens	Smooth Hydrangea	
Hydrophyllum appendiculatum	Appendaged Waterleaf	
Hydrophyllum canadense	Bluntleaf Waterleaf	
Hydrophyllum virginianum	Virginia Waterleaf	
Hypericum punctatum	Spotted St. John's-wort	
Impatiens capensis	Spotted Touch-me-not	
Impatiens pallida	Pale Touch-me-not	
Iris pseudacorus	Pale-yellow Iris	
Juglans nigra	Black Walnut	
Juncus tenuis	Path Rush	
Justicia americana	American Water-willow	
Lactuca canadensis	Wild Lettuce	
Laportea canadensis	Canadian Wood Nettle	
Leersia oryzoides	Rice Cutgrass	

Rush Run Known Species List (2022)		
	nts	
Scientific Name	Common Name	
Leersia virginica	White Grass	
Lemna minor	Common Duckweed	
$Ligustrum\ vulgare$	Common Privet	
Lindera benzoin	Northern Spicebush	
Lindernia dubia	False Pimpernel	
$Lobelia\ siphilitica$	Blue Lobelia	
Lonicera canadensis	American Fly Honeysuckle	
Lonicera japonica	Japanese Honeysuckle	
Lonicera maackii	Amur Honeysuckle	
Lonicera tatarica	Tatarian Honeysuckle	
Ludwigia palustris	Water Purslane	
Lycopus americanus	American Water Horehound	
Lycopus rubellus	Stalked water-horehound	
Lycopus virginicus	Virginia Bugleweed	
Lysimachia ciliata	Fringed Loosestrife	
Lysimachia nummularia	Creeping Jenny	
Lythrum salicaria	Purple Loosestrife	
Maclura pomifera	Osage Orange	
Menispermum canadense	Canada Moonseed	
Mimulus alatus	Winged Monkey Flower	
Mimulus ringens	Allegheny Monkey Flower	
Muhlenbergia schreberi	Nimblewill	
Muhlenbergia sylvatica	Woodland Muhly	
Ornithogalum umbellatum	Star-of-Bethlehem	
Ostrya virginiana	Hop Hornbeam	
Oxalis stricta	Yellow Wood Sorrel	
Panicum dichotomiflorum	Fall Panic Grass	
Panicum latifolium	Broad-leaved Panic Grass	
Panicum rigidulum	Switchgrass	
Parthenocissus quinquefolia	Virginia Creeper	
Phalaris arundinacea	Reed Canary Grass	
Phlox paniculata	Garden Phlox	
Phyla lanceolata	Lance-leaf Fog Fruit	
Physalis longifolia	Long-leaf Ground Cherry	
Phytolacca americana	American Pokeweed	
Pilea fontana	Black-fruited Clearweed	
Pilea pumila	Dwarf Clearweed	
Plantago rugelii	Rugel's Plantain	

Plants Scientific Name Platanus occidentalis American Sycamore Podophilum peltatum Mayapple Polygonatum biflorum Smooth Solomon's Seal Polygonum aviculare Polygonum cespitosum Tufted Knotweed Polygonum lapathifolium Nodding Smartweed Polygonum pensylvanicum Polygonum pensylvanicum Polygonum pensylvanicum Polygonum pensylvanicum Polygonum punctatum Polygonum punctatum Polygonum punctatum Polygonum persicaria Lafeup Polymia canadensis Leafeup Polystichum acrostichoides Plains Cottonwood Prenanthes crepidinea Nodding Rattlesnake-root Prunus serotina Black Cherry Ptelea trifoliata Common Hoptree Pyrus malis Apple Quercus macrocarpa Bur Oak Quercus palustris Pin Oak Quercus palustris Pin Oak Ranunculus hispidus Hispid Buttercup Ranunculus sceleratus Cursed Crowfoot Ribes cynosbati Prickly Gooseberry Rorippa palustris Bog Yellow-cress Rorippa sylvestris Creeping Yellow-cress Rosa multiflora Rubus occidentalis Black Raspberry Rubus pensylvanicus Pennsylvania Blackberry Rubus pensylvanicus Pennsylvania Blackberry Rubus pensylvanicus Pennsylvania Blackberry Rubus pensylvanicus Pennsylvania Blackberry Rudbeckia laciniata Cut-leaf Coneflower Salix exigua Sandbar Willow Samolus floribundus Sanoula foribundus Brookweed Sanguinaria canadensis Bloodroot Sanicula canadensis Canadian Black Snakeroot Sanicula marilandica Maryland Black Snakeroot Sanicula marilandica Maryland Black Snakeroot	Rush Run Known Species List (2022)		
Platanus occidentalis         American Sycamore           Podophilum peltatum         Mayapple           Polygonum ilforum         Smooth Solomon's Seal           Polygonum aviculare         Common Knotgrass           Polygonum cespitosum         Tufted Knotweed           Polygonum hydropiper         Marsh Waterpepper           Polygonum lapathifolium         Nodding Smartweed           Polygonum pensylvanicum         Pennsylvania Smartweed           Polygonum persicaria         Lady's-thumb           Polygonum punctatum         Dotted Smartweed           Pyrus and Saltweet		-	
Podophilum peltatum         Mayapple           Polygonatum biflorum         Smooth Solomon's Seal           Polygonum aviculare         Common Knotgrass           Polygonum cespitosum         Tufted Knotweed           Polygonum hydropiper         Marsh Waterpepper           Polygonum lapathifolium         Nodding Smartweed           Polygonum pensylvanicum         Pennsylvania Smartweed           Polygonum pensylvanicum         Dotted Smartweed           Polygonum punctatum         Dotted Smartweed           Polygonum pensylvania and trait         Leafcup           Polygonum pensylvania Black Cherry         Plaster Smartweed           Polygonum pensylvania Black Cherry         Plaster Smartweed         Pontention           Polygonum pensylvania Black Polygonum pensylvania Black Polygon         Puncylvania Black Polygon <t< th=""><th></th><th>Common Name</th></t<>		Common Name	
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Polygonum cespitosum         Tufted Knotweed           Polygonum hydropiper         Marsh Waterpepper           Polygonum lapathifolium         Nodding Smartweed           Polygonum pensylvanicum         Pennsylvania Smartweed           Polygonum persicaria         Lady's-thumb           Polygonum punctatum         Dotted Smartweed           Polymnia canadensis         Leafcup           Polystichum acrostichoides         Christmas Fern           Populus deltoides         Plains Cottonwood           Prenanthes crepidinea         Nodding Rattlesnake-root           Prunus serotina         Black Cherry           Ptelea trifoliata         Common Hoptree           Pyrus malis         Apple           Quercus alba         White Oak           Quercus alba         White Oak           Quercus palustris         Pin Oak           Quercus palustris         Pin Oak           Ranuculus hispidus         Hispid Buttercup           Ranuculus sceleratus         Cursed Crowfoot           Ribes cynosbati         Prickly Gooseberry           Rorippa palustris         Bog Yellow-cress           Rosa multiflora         Multiflora Rose           Rubus pensylvanicus         Pennsylvania Blackberry           Rubus pensylvanicu	Polygonatum biflorum	Smooth Solomon's Seal	
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Sanicula marilandica Maryland Black Snakeroot	Sanicula gregaria	Clustered Black Snakeroot	
		Maryland Black Snakeroot	
	Sanicula trifoliata		

Scientific Name Saururus cernuus Lizard's Tail Scrophularia marilandica Scutellaria lateriflora Mad-dog Skullcap Sedum ternatum Woodland Stonecrop Senecio obovatus Roundleaf Ragwort Setaria faberi Giant Foxtail Setaria viridis Green Foxtail Smilacina racemosa False Solomon's-seal Smilax hispida Bristly Greenbrier Smilax rotundifolia Roundleaf Greenbrier Solanum nigrum Black Nightshade Solidago caesia Blue-stemmed Goldenrod Solidago flexicaulis Zigzag Goldenrod Solidago figantea Giant Goldenrod Staphylea trifolia American Bladdernut Symphoricarpos orbiculatus Coralberry Symplocarpos foetidus Eastern Skunk Cabbage Teucrium canadense Thalictrum dioicum Thalictrum rochebrunianum Meadow Rue Thaspium barbinode Thaspium barbinode Trovara virginiana Ulmus rubra Ulmus rubra Ulmus rubra Ulmus rubra Ulmus rubra Ulmus rupafifum Verbesian alternifolia Wingstem Vernonia gigantea Ciant Ironweed Viburum manufifum Belokhaur Plackhaur	Rush Run Known Species List (2022)		
Saururus cernuus         Lizard's Tail           Scrophularia marilandica         Maryland Figwort           Scutellaria lateriflora         Mad-dog Skullcap           Sedum ternatum         Woodland Stonecrop           Senecio obovatus         Roundleaf Ragwort           Setaria faberi         Giant Foxtail           Setaria viridis         Green Foxtail           Smilax fase Solomon's-seal         False Solomon's-seal           Smilax hispida         Bristly Greenbrier           Smilax rotundifolia         Roundleaf Greenbrier           Solanum nigrum         Black Nightshade           Solidago caesia         Blue-stemmed Goldenrod           Solidago caesia         Blue-stemmed Goldenrod           Solidago flexicaulis         Zigzag Goldenrod           Solidago gigantea         Giant Goldenrod           Solidago gigantea         Giant Goldenrod           Staphylea trifolia         American Bladdernut           Symphoricarpos alba         Common Snowberry           Symphoricarpos orbiculatus         Coralberry           Symphoricarpos foetidus         Eastern Skunk Cabbage           Teucrium canadense         American Germander           Thalictrum rochebrunianum         Meadow-rue           Thalicurum rochebrunianum <t< th=""><th></th><th></th></t<>			
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Scutellaria lateriflora         Mad-dog Skullcap           Sedum ternatum         Woodland Stonecrop           Senecio obovatus         Roundleaf Ragwort           Setaria faberi         Giant Foxtail           Setaria viridis         Green Foxtail           Smilacina racemosa         False Solomon's-seal           Smilax hispida         Bristly Greenbrier           Smilax rotundifolia         Roundleaf Greenbrier           Solanum nigrum         Black Nightshade           Solidago caesia         Blue-stemmed Goldenrod           Solidago canadensis         Canada Goldenrod           Solidago flexicaulis         Zigzag Goldenrod           Solidago gigantea         Giant Goldenrod           Solidago gigantea         Giant Goldenrod           Staphylea trifolia         American Bladdernut           Symphoricarpos alba         Common Snowberry           Symphoricarpos orbiculatus         Coralberry           Symphoricarpos orbiculatus         Eastern Skunk Cabbage           Teucrium canadense         American Germander           Thalictrum dioicum         Early Meadow-rue           Thalictrum rochebrunianum         Meadow Rue           Thaspium barbinode         Hairy-Joint Meadow-Parsnip           Tilia americana         Basswo	Saururus cernuus	Lizard's Tail	
Sedum ternatumWoodland StonecropSenecio obovatusRoundleaf RagwortSetaria faberiGiant FoxtailSetaria viridisGreen FoxtailSmilacina racemosaFalse Solomon's-sealSmilax hispidaBristly GreenbrierSmilax rotundifoliaRoundleaf GreenbrierSolanum nigrumBlack NightshadeSolidago caesiaBlue-stemmed GoldenrodSolidago flexicaulisZigzag GoldenrodSolidago giganteaGiant GoldenrodSolidago giganteaGiant GoldenrodStaphylea trifoliaAmerican BladdernutSymphoricarpos albaCommon SnowberrySymphoricarpos orbiculatusCoralberrySymplocarpos foetidusEastern Skunk CabbageTeucrium canadenseAmerican GermanderThalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Scrophularia marilandica	Maryland Figwort	
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Setaria faberiGiant FoxtailSetaria viridisGreen FoxtailSmilacina racemosaFalse Solomon's-sealSmilax hispidaBristly GreenbrierSmilax rotundifoliaRoundleaf GreenbrierSolanum nigrumBlack NightshadeSolidago caesiaBlue-stemmed GoldenrodSolidago canadensisCanada GoldenrodSolidago flexicaulisZigzag GoldenrodSolidago giganteaGiant GoldenrodStaphylea trifoliaAmerican BladdernutSymphoricarpos albaCommon SnowberrySymphoricarpos orbiculatusCoralberrySymphoricarpos foetidusEastern Skunk CabbageTeucrium canadenseAmerican GermanderThalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Sedum ternatum	Woodland Stonecrop	
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Symphoricarpos orbiculatusCoralberrySymplocarpos foetidusEastern Skunk CabbageTeucrium canadenseAmerican GermanderThalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Staphylea trifolia	American Bladdernut	
Symplocarpos foetidusEastern Skunk CabbageTeucrium canadenseAmerican GermanderThalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Symphoricarpos alba	Common Snowberry	
Teucrium canadenseAmerican GermanderThalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Symphoricarpos orbiculatus	Coralberry	
Thalictrum dioicumEarly Meadow-rueThalictrum rochebrunianumMeadow RueThaspium barbinodeHairy-Joint Meadow-ParsnipTilia americanaBasswoodTovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Symplocarpos foetidus	Eastern Skunk Cabbage	
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Tilia americana Basswood  Tovara virginiana Virginia Knotweed  Toxicodendron radicans Poison Ivy  Ulmus americana American Elm  Ulmus rubra Slippery Elm  Urtica procera Stinging Nettle  Uvularia grandiflora Large-flowered Bellwort  Verbena urticifolia White Vervain  Verbesina alternifolia Wingstem  Vernonia gigantea Giant Ironweed  Viburnum dentatum Northern Arrowwood	Thalictrum rochebrunianum	Meadow Rue	
Tovara virginianaVirginia KnotweedToxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Thaspium barbinode	Hairy-Joint Meadow-Parsnip	
Toxicodendron radicansPoison IvyUlmus americanaAmerican ElmUlmus rubraSlippery ElmUrtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Tilia americana	Basswood	
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Urtica proceraStinging NettleUvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Ulmus americana	American Elm	
Uvularia grandifloraLarge-flowered BellwortVerbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Ulmus rubra	Slippery Elm	
Verbena urticifoliaWhite VervainVerbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Urtica procera	Stinging Nettle	
Verbesina alternifoliaWingstemVernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Uvularia grandiflora	Large-flowered Bellwort	
Vernonia giganteaGiant IronweedViburnum dentatumNorthern Arrowwood	Verbena urticifolia	White Vervain	
Viburnum dentatum Northern Arrowwood	Verbesina alternifolia	Wingstem	
	Vernonia gigantea	Giant Ironweed	
Vihumum munifolium Rholphory	Viburnum dentatum	Northern Arrowwood	
v tour mant prantijouant Diackilaw	Viburnum prunifolium	Blackhaw	

Rush Run Known Species List (2022)		
Plants		
Scientific Name	Common Name	
Viburnum seiboldii	Siebold's Viburnum	
Viola sororia	Missouri Violet	
Viola striata	Striped Creamy Violet	
Vitis aestivalis	Summer Grape	
Vitis riparia	Riverbank Grape	
Xanthium strumarium	Rough Cocklebur	

Rush Run Known Species List (2022)		
Mammals		
Scientific Name	Common Name	
Odocoileus virginianus	White-tailed Deer	
Sciurus carolinensis	Eastern Gray Squirrel	
Sciurus niger	Fox Squirrel	
Sylvilagus floridanus	Eastern Cottontail	
Tamias striatus	Chipmunk	

Rush Run Known Species List (2022)	
Fish	
Scientific Name	Common Name
Etheostoma camurum	Bluebreast Darter

Rush Run Known Species List (2022)	
Amphibians	
Scientific Name	Common Name
Plethodon cinereus	Red-backed Salamander

Rush Run Known Species List (2022)	
Mussels	
Scientific Name	Common Name
Epioblasma triquetra	Snuffbox

Rush Run Known Species List (2022)  Birds	
Agelaius phoeniceus	Red-winged Blackbird
Anas platyrhynchos	Mallard
Branta canadensis	Canada Goose
Bucephala clangula	Common Goldeneye
Cardinalis cardinalis	Northern Cardinal
Cathartes aura	Turkey Vulture
Catharus minimus	Gray-cheeked Thrush
Colaptes auratus	Northern Flicker
Coragyps atratus	Black Vulture
Corthylio calendula	Ruby-crowned Kinglet
Corvus brachyrhynchos	American Crow
Cyanocitta cristata	Blue Jay
Dryobates pubescens	Downy Woodpecker
Haemorhous mexicanus	House Finch
Haemorhous purpureus	Purple Finch
Icterus spurius	Orchard Oriole
Junco hyemalis	Dark-eyed Junco
Leiothlypis peregrina	Tennessee Warbler
Leiothlypis ruficapilla	Nashville Warbler
Megaceryle alcyon	Belted Kingfisher
Melospiza melodia	Song Sparrow
Petrochelidon pyrrhonota	Cliff Swallow
Poecile carolinensis	Carolina Chickadee
Regulus satrapa	Golden-crowned Kinglet
Riparia riparia	Bank Swallow
Setophaga coronata	Yellow-rumped Warbler
Setophaga palmarum	Palm Warbler
Sitta carolinensis	White-breasted Nuthatch
Spinus tristis	American Goldfinch
Stelgidopteryx serripennis	Northern Rough-winged Swallow
Strix varia	Barred Owl
Sturnus vulgaris	European Starling
Tachycineta bicolor	Tree Swallow
Thryothorus ludovicianus	Carolina Wren
Turdus migratorius	American Robin
Zenaida macroura	Mourning Dove