# **APPENDIX E Natural Resources**

# **Environmental Resource Mapper**

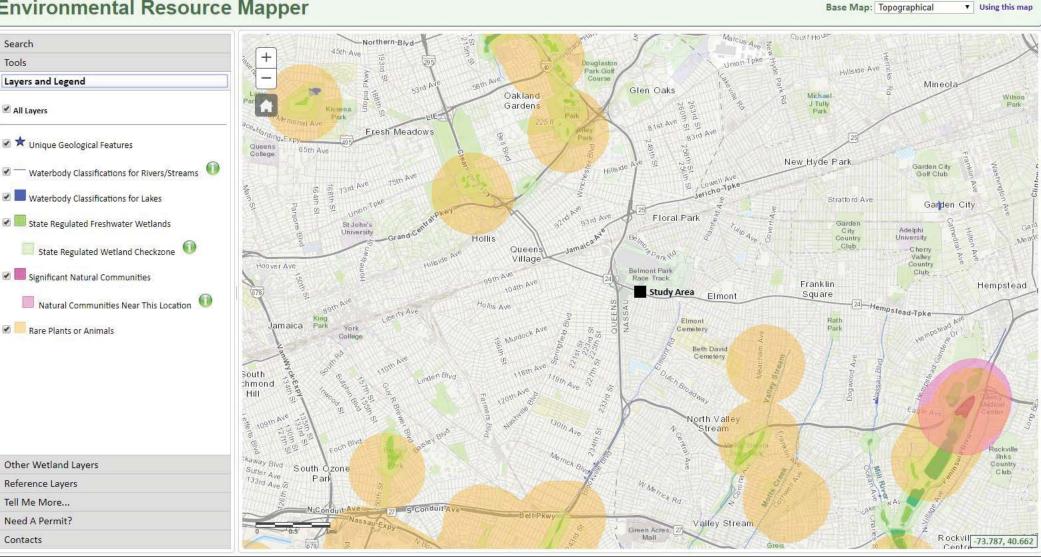


Table 10-1 Vegetation Identified within Site A

Vegetation Identified within Site		
Common Name	Scientific Name	Stratum
Common mugwort	Artemisia vulgaris	Herb
Common milkweed	Asclepias syriaca	Herb
Lamb's quarters	Chenopodium album	Herb
Orchard grass	Dactylis glomerata	Herb
Crabgrass	Digitaria sp.	Herb
Path rush	Juncus tenuis	Herb
Field peppergrass	Lepidium campestre	Herb
Common evening primrose	Oenothera biennis	Herb
English plantain	Plantago lanceolata	Herb
Common plantain	Plantago major	Herb
Kentucky bluegrass	Poa pratensis	Herb
Creeping yellowcress	Rorippa sylvestris	Herb
Curly dock	Rumex crispus	Herb
Rough-fruited cinquefoil	Sulphur Cinquefoil	Herb
Common dandelion	Taraxacum officinale	Herb
White clover	Trifolium repens	Herb
Dogwood	Cornus sp.	Shrub
Wild hydrangea	Hydrangea arborescens	Shrub
Rose	Rosa sp.	Shrub
Vibernum sp.	Vibernum sp.	Shrub
Norway maple	Acer platanoides	Tree
Tree-of-heaven	Ailanthus altissima	Tree
European beech	Fagus sylvatica	Tree
White ash	Fraxinus americana	Tree
White mulberry	Morus alba	Tree
Eastern white pine	Pinus strobus	Tree
White oak	Quercus alba	Tree
Pin oak	Quercus palustris	Tree
Yew	Taxus baccata	Tree
American linden	Tilia americana	Tree
Littleleaf linden	Tilia cordata	Tree
Slippery elm	Ulmus rubra	Tree
Asiatic bitterweet	Celastrus orbiculatus	Vine
Winter creeper	Euonymus fortunei	Vine
Boston ivy	Parthenocissus tricuspidata	Vine

**Note:** Boldface denoted dominant vegetation within the study area **Source:** AKRF reconnaissance conducted on May 21, 2018

Table 10-2 Vegetation Identified within Site B

vegetation identified within Site		
Common Name	Scientific Name	Stratum
Wild onion	Allium canadense	Herb
Common mugwort	Artemisia vulgaris	Herb
Common milkweed	Asclepias syriaca	Herb
Orchard grass	Dactylis glomerata	Herb
Crabgrass	Digitaria sp.	Herb
Path rush	Juncus tenuis	Herb
Field peppergrass	Lepidium campestre	Herb
Japanese stiltgrass	Microstegium vimineum	Herb
Panicgrass	Panicum sp.	Herb
English plantain	Plantago lanceolata	Herb
Kentucky bluegrass	Poa pratensis	Herb
Curly dock	Rumex crispus	Herb
Common dandelion	Taraxacum officinale	Herb
White clover	Trifolium repens	Herb
Rose	Rosa sp.	Shrub
Norway maple	Acer platanoides	Tree
Tree-of-heaven	Ailanthus altissima	Tree
White ash	Fraxinus americana	Tree
White mulberry	Morus alba	Tree
Black cherry	Prunus serotina	Tree
White oak	Quercus alba	Tree
Pin oak	Quercus palustris	Tree
Willow oak	Quercus phellos	Tree
Black locust	Robinia pseudoacacia	Tree
Sassafras	Sassafras albidum	Tree
Asiatic bitterweet	Celastrus orbiculatus	Vine
Japanese honeysuckle	Lonicera japonica	Vine
Boston ivy	Parthenocissus tricuspidata	Vine
ote: Boldface denoted dominant	vegetation within the study area	

**Note:** Boldface denoted dominant vegetation within the study area **Source:** AKRF reconnaissance conducted on May 21, 2018

Table 10-3 Vegetation Identified within the South Lot

Common Name	Scientific Name	Statum
Common mugwort	Artemisia vulgaris	Herb
Common milkweed	Asclepias syriaca	Herb
Lamb's quarters	Chenopodium album	Herb
Crabgrass	Digitaria sp.	Herb
Bedstraw	Galium sp.	Herb
Prickly lettuce	Lactuca serriola	Herb
English plantain	Plantago lanceolata	Herb
Common plantain	Plantago major	Herb
Kentucky bluegrass	Poa pratensis	Herb
Bulbous buttercup	Ranunculus bulbosus	Herb
Creeping yellowcress	Rorippa sylvestris	Herb
Common chickweed	Stellaria media	Herb
Common dandelion	Taraxacum officinale	Herb
Low hop clover	Trifolium campestre	Herb
White clover	Trifolium repens	Herb
White mulberry	Morus alba	Tree
London planetree	Platanus × acerifolia	Tree
Black cherry	Prunus serotina	Tree
American linden	Tilia americana	Tree
Littleleaf linden	Tilia cordata	Tree

**Note:** Boldface denoted dominant vegetation within the study area **Source:** AKRF reconnaissance conducted on May 21, 2018

Table 10-4 Vegetation Identified within the North Lot and Proposed Belmont Substation

Common Name	Scientific Name	Stratum
Common mugwort	Artemisia vulgaris	Herb
Crabgrass	Digitaria sp.	Herb
Yellow wood sorrel	Oxalis stricta	Herb
English plantain	Plantago lanceolata	Herb
Common plantain	Plantago major	Herb
Kentucky bluegrass	Poa pratensis	Herb
Common dandelion	Taraxacum officinale	Herb
White clover	Trifolium repens	Herb
Common blackberry	Rubus allegheniensis	Shrub
Norway maple	Acer platanoides	Tree
White ash	Fraxinus americana	Tree
Eastern red cedar	Juniperus virginiana	Tree
White mulberry	Morus alba	Tree
Japanese corktree	Phellodendron japonicum	Tree
Blue spruce	Picea pungens	Tree
Black cherry	Prunus serotina	Tree
Pin oak	Quercus palustris	Tree
Japanese honeysuckle	Lonicera japonica	Vine

**Note:** Boldface denoted dominant vegetation within the study area **Source:** AKRF reconnaissance conducted on May 21, 2018

Table 10-5 Vegetation Identified within the Blue Lot

		illed Within the Blue I
Common Name	Scientific Name	Stratum
Common mugwort	Artemisia vulgaris	Herb
Spotted knapweed	Centaurea maculosa	Herb
Common chicory	Cichorium intybus	Herb
Orchard grass	Dactylis glomerata	Herb
Wild carrot	Daucus carota	Herb
Crabgrass	Digitaria sp.	Herb
Daisy fleabane	Erigeron annuus	Herb
Lady's thumb	Persicaria maculosa	Herb
English plantain	Plantago lanceolata	Herb
Common plantain	Plantago major	Herb
Kentucky bluegrass	Poa pratensis	Herb
Goldenrod	Solidago sp.	Herb
White clover	Trifolium repens	Herb
Multiflora rose	Rosa multiflora	Shrub
Eastern red cedar	Juniperus virginiana	Tree
Tree-of-heaven	Ailanthus altissima	Tree
Norway maple	Acer platanoides	Tree
Japanese honeysuckle	Lonicera japonica	Vine
Boston ivy	Parthenocissus tricuspidata	Vine

**Note:** Boldface denoted dominant vegetation within the study area **Source:** AKRF reconnaissance conducted on September 27, 2018

Table 10-6 NYS Breeding Bird Atlas (2000–2005) Block 6050A

NYS Breeding Bird Atlas (2000–2005) Block 6050	
Common Name	Scientific Name
Canada Goose	Branta canadensis
Mute Swan	Cygnus olor
Mallard	Anas platyrhynchos
Killdeer	Charadrius vociferus
Rock Pigeon	Columba livia
Mourning Dove	Zenaida macroura
Chimney Swift	Chaetura pelagica
Downy Woodpecker	Picoides pubescens
Northern Flicker	Colaptes auratus
Eastern Kingbird	Tyrannus tyrannus
Red-eyed Vireo	Vireo olivaceus
Blue Jay	Cyanocitta cristata
American Crow	Corvus brachyrhynchos
Tree Swallow	Tachycineta bicolor
Barn Swallow	Hirundo rustica
Black-capped Chickadee	Poecile atricapillus
Tufted Titmouse	Baeolophus bicolor
American Robin	Turdus migratorius
Gray Catbird	Dumetella carolinensis
Northern Mockingbird	Mimus polyglottos
European Starling	Sturnus vulgaris
Common Yellowthroat	Geothlypis trichas
Chipping Sparrow	Spizella passerina
Song Sparrow	Melospiza melodia
Northern Cardinal	Cardinalis cardinalis
Indigo Bunting	Passerina cyanea
Red-winged Blackbird	Agelaius phoeniceus
Common Grackle	Quiscalus quiscula
Brown-headed Cowbird	Molothrus ater
Baltimore Oriole	lcterus galbula
House Finch	Carpodacus mexicanus
House Sparrow	Passer domesticus
Source: NYS Breeding Bird Atlas (2000–2005) for Blo	ock 6050A

Table 10-7
Reptiles and Amphibians Documented by the NYSDEC Herp Atlas Project in the
Lynbrook Census Ouadrant

	Lyndrook Census Quadrant
Common Name	Scientific Name
Spotted salamander	Ambystoma maculatum
Fowler's toad	Bufo fowleri
Common snapping turtle	Chelydra s. serpentina
Painted turtle	Chrysemys picta
Northern redback salamander	Plethodon c. cinereus
Italian wall lizard	Podarcis sicula
Northern spring peeper	Pseudacris c. crucifer
Bullfrog	Rana catesbeiana
Green frog	Rana clamitans melanota
Wood frog	Rana sylvatica
Northern brown snake	Storeria dekayi
Eastern box turtle	Terrapene c. carolina
Common garter snake	Thamnophis sirtalis
Red-eared slider	Trachemys scripta elegans

Note: Boldface indicates the subset of species that are considered to have the potential to occur in the study area on the basis of their habitat requirements (Mitchell et al. 2006, Gibbs et al. 2007).



# United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258 Phone: (631) 286-0485 Fax: (631) 286-4003



In Reply Refer To: May 30, 2018

Consultation Code: 05E1LI00-2018-SLI-0595

Event Code: 05E1LI00-2018-E-01349

Project Name: Belmont Park Redevelopment Project

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Long Island Ecological Services Field Office** 340 Smith Road Shirley, NY 11967-2258 (631) 286-0485

## **Project Summary**

Consultation Code: 05E1LI00-2018-SLI-0595

Event Code: 05E1LI00-2018-E-01349

Project Name: Belmont Park Redevelopment Project

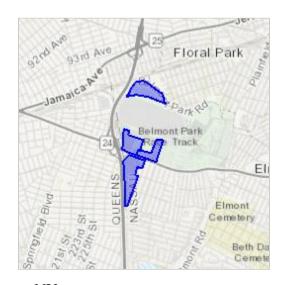
Project Type: DEVELOPMENT

Project Description: New York Arena Partners, LLC ("NYAP" or "the Applicant") proposes to

construct a sports and entertainment destination (the "Proposed Project") at Belmont Park. The Proposed Project would redevelop the Project Sites with: an arena for the New York Islanders National Hockey League (NHL) franchise and for other entertainment events; dining, retail, and entertainment uses; a hotel; commercial office space; community center space; publicly accessible open space; parking; and a pedestrian bridge providing access between Sites A and B. In addition to the parking proposed for the Project Sites, it is expected that visitors to the Proposed Project would also utilize existing parking at Belmont Park in the "North Lot" and "South Lot" through a shared parking agreement with the FOB and NYRA. Construction of the Proposed Project would be expected to occur in a single phase over a period of approximately 28 months, starting in 2019, with full build-out of all project components in 2021.

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/40.71841986381136N73.72340513747878W">https://www.google.com/maps/place/40.71841986381136N73.72340513747878W</a>



Counties: Nassau, NY | Queens, NY

## **Endangered Species Act Species**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

#### **Mammals**

NAME STATUS

#### Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

#### **Birds**

NAME STATUS

#### Piping Plover Charadrius melodus

Threatened

Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: <a href="https://ecos.fws.gov/ecp/species/6039">https://ecos.fws.gov/ecp/species/6039</a>

#### Red Knot Calidris canutus rufa

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864

#### Roseate Tern Sterna dougallii dougallii

Endangered

Population: northeast U.S. nesting pop.

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2083">https://ecos.fws.gov/ecp/species/2083</a>

## **Flowering Plants**

NAME

Sandplain Gerardia Agalinis acuta

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8128">https://ecos.fws.gov/ecp/species/8128</a>

Seabeach Amaranth Amaranthus pumilus

Threatened

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8549">https://ecos.fws.gov/ecp/species/8549</a>

#### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



Environmental, Planning, and Engineering Consultants

440 Park Avenue South 7th Floor New York, NY 10016 tel: 212 696-0670 fax: 212 213-3191 www.akrf.com

October 23, 2018

United States Fish and Wildlife Service Endangered Species Program Long Island Ecological Services Field Office 340 Smith Road Shirley, NY 11967-2258

Re: Request for Northern Long-Eared Bat Review, Belmont Park Redevelopment Project, Elmont, Town of Hempstead, Nassau County, NY

#### Dear Endangered Species Program:

New York Arena Partners, LLC and its affiliates (collectively, "NYAP" or "the Applicant") are proposing to redevelop a portion of Belmont Park (the "Proposed Project"), located in the unincorporated hamlet of Elmont in the Town of Hempstead in Nassau County, New York. On behalf of Empire State Development (ESD), lead agency under the State Environmental Quality Review Act (SEQRA), AKRF is respectfully requesting review of the Proposed Project to determine whether compliance with Section 4(d) of the Endangered Species Act ("4(d) Rule")¹ for the northern long-eared bat applies when the existing habitat within the Project Sites and surrounding landscape are taken into consideration.

The Proposed Project would redevelop the Project Sites with: an arena for the New York Islanders National Hockey League (NHL) franchise and for other sports, music, and entertainment events; dining, retail, and entertainment uses; a hotel; commercial office space; community center space; publicly accessible open space; parking; and one or more pedestrian connections providing access between Sites A and B. Visitors to the Proposed Project would also utilize existing parking at Belmont Park in the North, South, and Blue Lots (See Figure 1-1).

There are no documented northern long-eared bat hibernacula or roosting locations within 40 miles of the Project Sites.<sup>2</sup> Furthermore, the New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper indicates "no" records of any state- or federally-listed species within or in the vicinity of the Project Sites. No bats were observed during site visits in May 2018 and September 2018.

The Project Sites are heavily developed and lack any large tracts of forest that would be capable of supporting northern long-eared bats. The majority of the Project Sites consists of low-quality and disturbed ecological communities, including paved parking lots, mowed lawns, and fragmented successional forests, in an urbanized setting that provides limited habitat for birds and other wildlife typical of developed

<sup>&</sup>lt;sup>1</sup> U.S. Fish and Wildlife Service (USFWS). 2016. Endangered and Threatened Wildlife and Plants; 4(d) Rule for the Northern Long-Eared Bat. Federal Register. Vol. 81, No. 9. January 14, 2016.

<sup>&</sup>lt;sup>2</sup> https://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html

suburban areas. Vegetation within these ecological communities is restricted to the edges of the parking lots, cracks in the pavement, and a few planted trees in the parking lot interiors. In addition, successional southern hardwoods are found along the perimeter of some paved areas. The Proposed Project would eliminate or modify ecological communities that are of limited value to wildlife (e.g., paved road/path and mowed lawn with trees), but would result in the loss of a number of mature trees, including 124 trees in Site A.

Summer habitat suitable for the northern long-eared bat typically includes mature, closed-canopy, upland and riparian forest within heavily forested landscapes (Ford et al. 2005, Henderson et al. 2008), usually within about 60 miles of the hibernaculum (Caceras and Barclay 2000, USFWS 2014). The northern longeared bat is considered to be an interior forest-dependent species that is sensitive to fragmentation and requires large tracts of unbroken forest for both foraging and breeding (Foster and Kurta 1999, Broders et al. 2006, Henderson et al. 2008, Segers and Broders 2014). Unlike many other bats of the Northeast, northern long-eared bats will commonly glean prey from leaves and other surfaces rather than strictly hawking flying insects in the air, and are thereby well-adapted to foraging in cluttered, structurally complex, forest interior habitat (Owen et al. 2003, Lacki et al. 2007). Northern long-eared bats do not concentrate along riparian corridors or other linear landscape features as much as strictly aerial-foraging species do (Owen et al. 2003, Ford et al. 2005, Harvey et al. 2011, USFWS 2014), and most radio-telemetry and acoustic studies have found that they typically avoid roads and other sharp forest edges (Owen et al. 2003, Patriquin and Barclay 2003, Carter and Feldhammer 2005, Morris et al. 2010, Segers and Broders 2014), where prey availability is expected to be lower than in the forest interior (Owen et al. 2003). Mature forest is considered to be the most important foraging habitat for the northern long-eared bat (USFWS 2013, 2014).

Due to lack of suitable habitat, it is AKRF's position that the seasonal tree clearing restrictions of the USFWS's 4(d) Rule<sup>3</sup> for the northern long-eared bat do not apply to the Proposed Project, and that the Proposed Project would have "no effect" to this species in accordance with the Endangered Species Act (16 U.S.C. §1531 et seq.). AKRF, on behalf of ESD, respectively requests your concurrence with this determination. Please feel free to contact me at 646-388-9657 or by email at scollins@akrf.com if you should have any questions regarding these materials.

Sincerely, AKRF, Inc.

Sandy Collins Vice President

cc: Rachel Shatz, ESD

Sanda & Callins

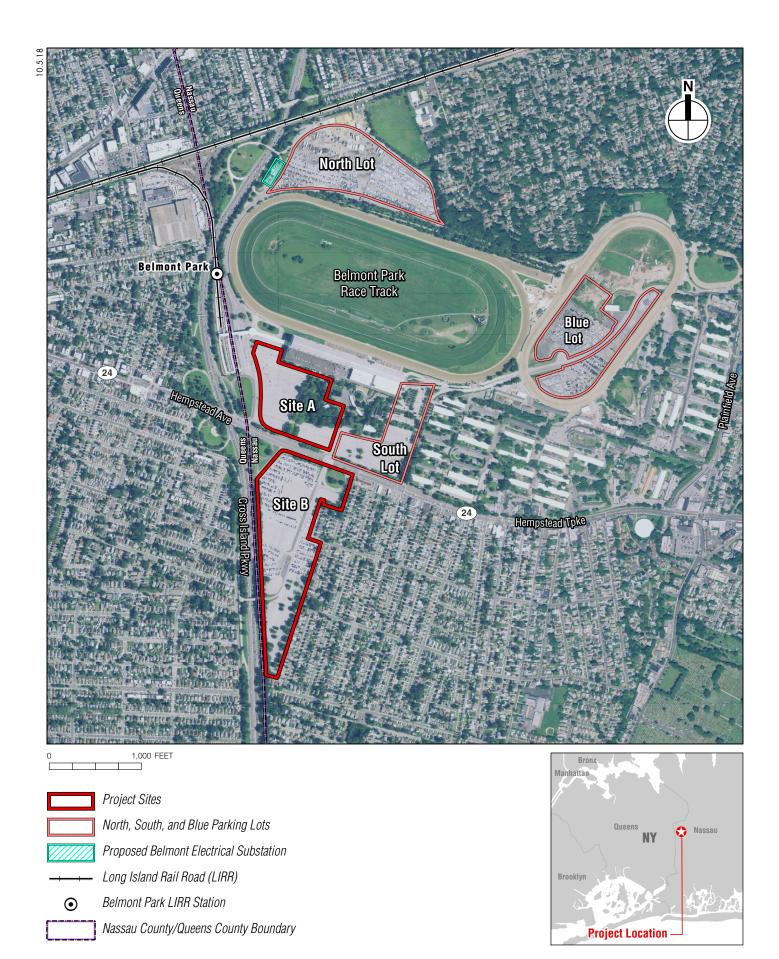
Enclosures: Figure 1-1

\_

<sup>&</sup>lt;sup>3</sup> U.S. Fish and Wildlife Service (USFWS). 2016. Endangered and Threatened Wildlife and Plants; 4(d) Rule for the Northern Long-Eared Bat. Federal Register. Vol. 81, No. 9. January 14, 2016.

#### **References:**

- Broders, H.G., G.J. Forbes, S. Woodley, and I.D. Thompson. 2006. Range extent and stand selection for forest-dwelling northern long-eared and little brown bats in New Brunswick. Journal of Wildlife Management 70: 1174-1184.
- Caceres, M. and R.M.R. Barclay. 2000. Myotis septentrionalis. Mammal Species 634:1-4.
- Carter, T.C., and G.A. Feldhamer. 2005. Roost tree use by maternity colonies of Indiana bats and northern long-eared bats in southern Illinois. Forest Ecology and Management 219:259-268.
- Ford, W.M., M.A. Menzel, J.L. Rodrigue, J.M. Menzel, and J.B. Johnson. 2005. Relating bat species presence to simple habitat measures in a central Appalachian forest. Biological Conservation 126: 528-539.
- Foster, R.W. and A. Kurta, A. 1999. Roosting ecology of the northern bat (Myotis septentrionalis) and comparisons with the endangered Indiana bat (Myotis sodalis). Journal of Mammalogy 80: 659-672
- Harvey, M.J., J.S. Altenbach, and T.L. Best. 2011. Bats of the United States and Canada. Johns Hopkins University Press, Baltimore.
- Henderson, L.E. and H.G. Broders. 2008. Movements and resource selection of the northern long-eared myotis (Myotis septentrionalis) in a forest-agriculture landscape. Journal of Mammalogy 89:952-963.
- Lacki, M.J., S.K. Amelon, and M.D. Baker. 2007. Foraging ecology of bats in forests. Pp. 83-127 in: Bats in forests: conservation and management (M.J. Lacki, J.P. Hayes, and A. Kurta, eds.). Johns Hopkins Press, Baltimore, MD.
- Morris, A.D., D.A. Miller, and M.C. Kalcounis-Reuppell. Use of forest edges by bats in a managed pine forest landscape. Journal of Wildlife Management 74: 26-34.
- Owen, S.F., M.A. Menzel, W.M. Ford, B.R. Chapman, K.V. Miller, J.W. Edwards, and P.B. Wood. 2003. Home-range size and habitat used by the northern myotis (Myotis septentrionalis). American Midland Naturalist 150:352-359.
- Patriquin, K.J. and R.M.R. Barclay. 2003. Foraging by bats in cleared, thinned and unharvested boreal forest. Journal of Applied Ecology 40:646-657.
- Segers, J. L. and H. G. Broders. 2014. Interspecific effects of forest fragmentation on bats. Canadian Journal of Zoology 92: 665-673.
- U.S. Fish and Wildlife Service (USFWS). 2014. Northern long-eared bat interim conference and planning guidance. Available from: http://www.fws.gov/midwest/endangered/mammals/nlba/pdf/NLEBinterimGuidance6Jan2014.pd f.
- U.S. Fish and Wildlife Service (USFWS). 2013. Northern long-eared bat. Available from: http://www.fws.gov/midwest/endangered/mammals/nlba/nlbaFactSheet.html.



Project Location

**BELMONT PARK REDEVELOPMENT PROJECT**