Marsh Bird Survey Report

Hoffman Falls Wind Project Towns of Fenner, Nelson, Eaton, and Smithfield Madison County, New York

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ACRONYMS AND ABBREVIATIONS

Environmental Design & Research, Landscape Architecture, Engineering & EDR

Environmental Services, D.P.C.

GIS geographic information system

GPS global positioning system

IPaC Information for Planning and Consultation

MBS Marsh Bird Survey

MW megawatt

NWI National Wetlands Inventory

NYNHP New York Natural Heritage Program

NYSDEC New York State Department of Environmental Conservation

ORES New York State Office of Renewable Energy Siting

POI point of interconnection

SGCN species of greatest conservation need

SGCN-HP high priority species of greatest conservation need

SSC species of special concern

USFWS United States Fish and Wildlife Service

1.0 INTRODUCTION

1.1 Purpose of the Investigation

On behalf of Liberty Renewables Inc. (the Applicant), Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) has prepared this Marsh Bird Survey Report for the Hoffman Falls Wind Project, a proposed wind energy generation facility and associated infrastructure (the Facility) located in Madison County, New York. This report supports an Application for a siting permit under New York's Accelerated Renewable Energy Growth and Community Benefit Act, Executive Law § 94-c (Section 94-c) regulations. The information included in this report is intended to help the Applicant design the Facility in a manner that minimizes adverse environmental impacts. This information will also assist the New York State Office of Renewable Energy Siting (ORES) and the New York State Department of Environmental Conservation (NYSDEC) in their determination of whether occupied habitat² for one or more state-listed threatened or endangered wildlife species exists within the area under consideration to host the Facility in accordance with the requirements of Section 94-c.

The purpose of this study was to document the presence, abundance, and use patterns of obligate and secretive wetland birds (including rails, bitterns, and grebes) within a defined Marsh Bird Survey (MBS) Study Area. Trained, qualified biologists conducted the 2023 marsh bird surveys based on the methodology established in the NYSDEC 2013 New York State Marsh Bird Monitoring Program Survey Instructions (NYSDEC 2013 Survey Instructions; NYSDEC, 2013). BEGIN CONFIDENTIAL INFORMATION<



CONFIDENTIAL INFORMATION The scope of these surveys was defined in a Marsh Bird Survey Work Plan (EDR, 2023a), which was submitted to ORES and NYSDEC in April 2023. Based on recommendations provided by ORES and NYSDEC staff following submittal of the Marsh Bird Survey Work Plan and additional on-site review, EDR shifted one point count location to improve coverage of wetlands within the MBS Study Area.

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¹ Chapter XVIII, Title 19 of the New York Codes, Rules and Regulations (NYCRR) Part 900. Available at: https://ores.ny.gov/regulations

² The New York State Endangered Species Act (Environmental Conservation Law §11-0535) and its implementing regulations at 6 New York Codes, Rules, and Regulations (NYCRR) Part 182 define occupied habitat as follows: a geographic area in New York within which a species listed as endangered or threatened in this Part has been determined by the department to exhibit one or more essential behaviors. Essential behavior refers to any of the behaviors exhibited by a species listed as endangered or threatened in this Part that are a part of its normal or traditional life cycle and that are essential to its survival and perpetuation. Essential behavior includes behaviors associated with breeding, hibernation, reproduction, feeding, sheltering, migration and overwintering.

1.2 Facility Location and Description

The Applicant is proposing to construct a wind energy generation facility of up to 100 megawatts (MW) within the Towns of Fenner, Nelson, Eaton, and Smithfield in Madison, County, New York (Figure 1). The proposed Facility will consist of wind turbines, a point of interconnection (POI) substation, temporary construction laydown areas, access roads, and electrical collection lines. The Facility will be constructed within an approximately 4,400-acre area that corresponds closely with the MBS Study Area (Figure 2). Within this area, a more limited subset of land will be selected for the siting, design, construction, and operation of the Facility. Some Facility components will be constructed in areas where disturbance has already occurred (e.g., agricultural fields that are used for hay and/or row crop production) to minimize the need for vegetation removal within natural communities.

2.0 BACKGROUND INFORMATION

2.1 Existing Conditions

The Applicant has gathered a substantial amount of information on the existing ecological conditions within the MBS Study Area. These investigations have included developing a Wildlife Site Characterization for the Facility, plus additional desktop analyses and on-site field assessments (e.g., breeding bird surveys, spring and fall raptor migration surveys, winter raptor surveys, wetland delineations). Based on these assessments, the lands currently under consideration for the Facility are primarily composed of agricultural fields, along with mixed forest, evergreen forest, woody wetlands, early successional communities, and developed land (primarily rural single-family houses, farms, and associated yards). As presented in Section 4.5.3 of the Wildlife Site Characterization previously prepared for the Facility in February 2023, emergent herbaceous wetlands and open water make up less than 1% of the area under consideration for the Facility (EDR, 2023b).

2.2 Agency Database Review and Consultation

As part of the Wildlife Site Characterization, EDR consulted with federal and state agencies regarding the potential presence of listed threatened or endangered species within the vicinity of the Facility. This included database review via the United States Fish and Wildlife Service (USFWS) online Information for Planning and Consultation (IPaC) system, correspondence with the New York Natural Heritage Program (NYNHP), and a pre-application consultation meeting with ORES and NYSDEC. EDR performed a review of the IPaC system for the Facility on April 6, 2021, and again on November 4, 2022. **BEGIN CONFIDENTIAL INFORMATION** <

>END CONFIDENTIAL INFORMATION A site-specific request for documented state-listed species occurrences in the vicinity of the Facility was submitted to NYNHP on November 4, 2022, and a response was received on December 28, 2022. The response letter indicates that the NYNHP database contains records of several state-listed threatened or endangered bird species that have been documented within 10 miles of the Facility. BEGIN CONFIDENTIAL INFORMATION <

> END CONFIDENTIAL INFORMATION

In a pre-application consultation meeting held on June 11, 2021, and in an updated letter that was subsequently issued on March 6, 2023, ORES and NYSDEC indicated that the Facility is not sited within areas of previously mapped occupied habitat for any state-listed species (EDR, 2023a). **BEGIN CONFIDENTIAL INFORMATION**<

>END CONFIDENTIAL

INFORMATION The Applicant will continue to consult with the appropriate agencies to ensure that the most current state-listed species information is being considered throughout the Facility design and development process.

3.0 2023 MARSH BIRD SURVEYS

3.1 Survey Period and Frequency

Biologists conducted marsh bird surveys during three survey periods: period 1 (May 15 to May 31), period 2 (June 1 to June 14), and period 3 (June 15 to June 30). These survey dates correspond with the optimal times for marsh bird surveys within higher elevation areas of New York State (NYSDEC, 2013). Surveys began the week of May 15, and each point count location within the MBS Study Area was surveyed once during each of the three survey periods. During each survey period, all survey locations were surveyed on the same day by a team of several biologists.

3.2 Survey Methodology

As described in the Marsh Bird Survey Work Plan (EDR, 2023a), the primary method for surveying marsh birds consisted of a regimented series of 11-minute call-broadcast point count surveys that were conducted within on-site wetland habitats. A total of 10 point count locations were designated within the MBS Study Area (Figure 3). Point count locations were systematically located to provide coverage of wetland habitats that may represent suitable marsh bird habitat throughout the MBS Study Area. The proposed point count locations were spaced away from obstructions where practicable, and approximately 400 meters apart to reduce the potential for overlapping detections, minimize audible distractions, and improve spatial coverage of the MBS Study Area. When selecting point count locations, EDR identified wetlands that may represent suitable marsh bird habitat within the MBS Study Area using a combination of field visits and desktop analysis. Data sources reviewed during the desktop analysis included USFWS National Wetlands Inventory (NWI) mapped wetlands, NYSDEC mapped wetlands, and preliminary approximate wetlands mapped by EDR. Point count locations were placed adjacent to wetlands that may represent suitable marsh bird habitat.

During each 11-minute survey, a 5-minute passive listening period was followed by six, 1-minute intervals. The 1-minute segments included 30 seconds of species-specific calls and 30 seconds of silence to elicit vocal responses from the primary focal species identified in the NYSDEC 2013 Survey Instructions. For the broadcast portion of the surveys, biologists used standardized marsh bird call sequence audio files, mobile phone or tablet devices, and portable speakers capable of projecting at 80 decibels (dB) measured 1 meter from the speaker, following Great Lakes Coastal Wetland Monitoring Program recommended procedures (GLCWMP, 2021). BEGIN CONFIDENTIAL INFORMATION<

>END CONFIDENTIAL INFORMATION Broadcast equipment was tested and set to the proper volume levels prior to the start of each survey period. Prior to initiating point count surveys, biologists placed the speaker on the ground facing the central portion of the respective wetland, recorded the associated compass direction, and moved approximately 2 meters away from the speaker.

Point count surveys were conducted once during each of the three survey periods between first light (0.5 hour before sunrise) and approximately 2 hours after sunrise as weather conditions permitted. To the greatest extent practicable, surveys were conducted in conditions that were conducive to: (1) hearing bird vocalizations; and (2) seeing birds move about in vegetation and in flight. Surveys were not conducted in conditions that could significantly reduce detectability, such as high winds, steady/heavy precipitation, extensive fog, or extreme temperatures.

Surveys were conducted by qualified biologists with experience and training in both acoustic and visual identification of birds in New York State. Survey data were recorded in a standardized and organized fashion utilizing project-specific data sheets based on the New York State Marsh Bird Monitoring Survey Data Sheet (NYSDEC, 2013) paired with a mobile geographic information system (GIS) application and a global positioning system (GPS). During surveys, biologists noted all bird species seen and heard. Visual identification was aided by the use of binoculars with 8x or 10x magnification. Incidental species that were heard or seen during qualitative meander surveys between point count survey periods were recorded, including any federally listed threatened or endangered species, state-listed threatened or endangered species, state-listed species of special concern (SSC), and birds listed as species of greatest conservation need (SGCN) (NYSDEC, 2015a). Standardized four-letter alpha codes were used for each avian species (Pyle and DeSante, 2022). Behavior and breeding codes were developed based on those used for the New York Breeding Bird Atlas III, and the activity or behavior observed that was most indicative of breeding was documented for each individual bird (eBird, 2023). The following data were recorded for each point count survey:

- Survey date.
- Observer name.
- Point count location identification number.
- Start time.
- Pertinent weather conditions including temperature, wind speed and direction, precipitation, cloud cover, and visibility.

- Detailed vegetation and habitat data (during the first survey period).
- General habitat characteristics and vegetation measurements, including photographs.
- Observed primary and secondary focal species and the number of birds recorded.
- Detailed locations for all state-listed threatened or endangered species and SSC observed.
- Observed activities, behaviors, and signs of breeding (if any) for each individual bird.

Vegetation and habitat data were collected in May within a 50-meter radius of each point count location. Habitat data recorded included water depth, survey location coordinates, how the survey location was accessed, percent cover, dominant plant species, invasive species, edge type, density of marsh vegetation, estimated average marsh vegetation height, Stewart and Kantrud wetland cover class (Stewart and Kantrud, 1971), management practices, and comments regarding disturbances observed (e.g., sources of significant noise, land management activities). Data gathered during field surveys were compiled, organized, and reviewed for quality and consistency each week.

3.3 Survey Results

Surveys were conducted during each of the three survey periods on May 18, June 7, and June 23, 2023. In total, morning point count surveys were completed on three different days and included a total of 30 marsh bird point count surveys and 330 survey-minutes. Three surveys were completed at each point count location. The overall survey effort, including travel among point count locations, one set of vegetation/habitat surveys, and qualitative meander surveys, totaled approximately 1,355 survey-minutes (more than 22 survey-hours). Completed survey information is provided in **Table 1** (Section 6.0).

No primary focal marsh bird species were observed during the survey season. Two secondary focal species were observed at multiple point count locations: the swamp sparrow and the willow flycatcher. Swamp sparrows were observed at Points 2, 4, 7, 8, 9, and 10 (16 observations). Observed behaviors typically included singing and flying, and one individual was also observed carrying food to a nearby nest near Point 4 on June 7, 2023, which confirmed breeding for this species at this location (eBird, 2023). The majority of the swamp sparrow observations occurred within 50 meters of point count locations (88%). Willow flycatchers were observed at Points 8 and 9. Observed behaviors included singing and calling. Error! R eference source not found. (Section 6.0) provides a summary of all bird species observed during point count surveys, including non-focal species. A total of three bird species were recorded incidentally outside of timed point count surveys. One of these species (white-breasted nuthatch; *Sitta carolinensis*) was only recorded incidentally. Incidental species observed during each survey are noted on the survey data sheets in Appendices A and B.

In addition to bird observation data, vegetation and habitat data were collected during the first survey period on May 18, 2023, and are summarized in **Table 3**. Habitat information and vegetative measurements, including representative photographs, are also provided on the survey data sheets in **Appendix B**.

3.3.1 State-Listed Species

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> END CONFIDENTIAL INFORMATION	

3.3.2 Other Special Status Species

Species for which conservation actions are needed within the next 10 years in order to maintain or increase populations are designated by the NYSDEC as high priority species of greatest conservation need (SGCN-HP; NYSDEC, 2015b).³ Three species listed as SGCN-HP were recorded during the survey period, including the bay-breasted warbler (*Setophaga castanea*), bobolink (*Dolichonyx oryzivorus*), and brown thrasher (*Oxostoma rufum*). A bay-breasted warbler was observed at Point 1, bobolinks were observed at Points 9 and 10, and a brown thrasher was observed at Point 9. Species of conservation concern in New York State are listed by the NYSDEC as SGCN.⁷ These species are in need conservation actions to maintain or increase population levels (NYSDEC, 2015b). A total of four SGCN were observed during the survey period, including the blue-winged warbler (*Vermivora cyanoptera*), ruffed grouse (*Bonasa umbellus*), scarlet tanager (*Piranga olivacea*), and wood thrush (*Hylocichla mustelina*).

4.0 SUMMARY AND CONCLUSIONS

EDR biologists conducted marsh bird surveys at 10 point count locations within the MBS Study Area between May 18 and June 23, 2023. A total of 30 point count surveys were conducted over a period of six weeks, and each point count location was surveyed three times during the survey season. Overall, a total of 19 observations of two secondary focal species (the swamp sparrow [16 observations] and the willow flycatcher [3 observations]) were recorded. Neither of these species are listed as endangered, threatened, or SSC by the state of New York. **BEGIN CONFIDENTIAL INFORMATION**<

> END CONFIDENTIAL INFORMATION

The results of the 2023 marsh bird surveys suggest that occupied breeding habitat for state-listed threatened or endangered marsh bird species is not present within the areas evaluated.

The studies conducted for the Facility to date, to document on-site use by state-listed and focal marsh birds, have been effective to inform evaluation of potential impacts to these species, and additional marsh bird study work is not recommended. Additional avian field studies have also been completed for the Facility, and the results of the marsh bird study and these other studies will provide information to make conclusions

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³ Some endangered, threatened, and special concern species are also listed as SGCN-HP or SGCN; these species are not described in this section.

about potential impacts to occupied habitat and the requirements for a net conservation benefit plan (if applicable).

5.0 REFERENCES

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6.0 TABLES

Table 1. Completed Survey Information

Survey Date	Point Count Locations Surveyed	Start Time (a.m.)	End Time (a.m.)	Temperature Range (°F)	Wind Speed Range (mph)	Wind Direction(s)	Cloud Cover Range (%)	Visibility Range (miles)	Precipitation/ Impacts to Visibility
	1, 2, 3, 4	5:13	8:10	29-35	1-3	S, SSE	0	10+	None
5/18/2023	5, 6, 7	5:22	8:22	30-36	1-7	S, ESE	0-25	10+	None
	8, 9, 10	5:28	7:39	27-32	0-1	NNE	0	10+	None
6/7/2023	1, 2, 3, 4	5:26	7:33	43-44	1-3	WSW, W	50-100	0.62-10	Wildfire Smoke
6/7/2023	5, 6, 7	5:36	8:36	42-45	4-7	W	90-100	0.62-10 ¹	Fog/Wildfire Smoke
6/7/2023	8, 9, 10	5:51	8:10	39-41	1-3	NNW	90-100	0.62-10	Wildfire Smoke
6/23/2023	1, 2, 3, 4	5:23	8:07	65-67	0-3	E, ESE	50-90	10+	None
6/23/2023	5, 6, 7	5:19	7:30	63-64	4-7	SSE, SE	90-100	10+	None
6/23/2023	8, 9, 10	5:42	7:48	60-64	4-7	N	50-90	1-10+	None

¹ This visibility range was updated following the survey based on additional review of weather data.

Table 2. Summary of Avian Species Observed

Alpha Code ¹	Common Name	Scientific Name	Point Count Location(s)
ALFL	Alder Flycatcher	Empidonax alnorum	3, 4, 5, 8
AMCR	American Crow	Corvus brachyrhynchos	1, 2, 3, 4, 5, 8, 9, 10
AMGO	American Goldfinch	Spinus tristis	1, 2, 5, 6, 7, 8, 9
AMRE	American Redstart	Setophaga ruticilla	1, 2
AMRO	American Robin	Turdus migratorius	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
BAOR	Baltimore Oriole	Icterus galbula	3, 8
BAWW	Black-and-white Warbler	Mniotilta varia	2
BBWA	Bay-breasted Warbler	Setophaga castanea	1
ВССН	Black-capped Chickadee	Poecile atricapillus	1, 2, 3, 4, 5, 7, 9, 10
BLJA	Blue Jay	Cyanocitta cristata	1, 3, 4, 5, 6, 7, 8, 9
ВОВО	Bobolink	Dolichonyx oryzivorus	9, 10
BRTH	Brown Thrasher	Toxostoma rufrum	4
BWWA	Blue-winged Warbler	Vermivora cyanoptera	2, 3, 7, 8
CANG	Canada Goose	Branta canadensis	4, 6, 8, 9, 10
CEDW	Cedar Waxwing	Bombycilla cedrorum	2, 4, 5
CHSP	Chipping Sparrow	Spizella passerina	3
COYE	Common Yellowthroat	Geothlypis trichas	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CSWA	Chestnut-sided Warbler	Setophaga pensylvanica	1, 2, 3, 4, 5, 7, 8
DEJU	Dark-eyed Junco	Junco hyemalis	1, 2, 3
EAKI	Eastern Kingbird	Tyrannus tyrannus	1, 2, 3, 4, 7
EAPH	Eastern Phoebe	Sayornis phoebe	1
EATO	Eastern Towhee	Pipilo erythrophthalmus	3, 5, 7
EAWP	Eastern Wood-Pewee	Contopus virens	1, 6
FISP	Field Sparrow	Spizella pusilla	5

Alpha Code ¹	Common Name	Scientific Name	Point Count Location(s)
GCFL	Great Crested Flycatcher	Myiarchus crinitus	3, 4, 8
GCKI	Golden-crowned Kinglet	Regulus satrapa	1
GRCA	Gray Catbird	Dumetella carolinensis	1, 2, 3, 4, 5, 7, 8, 9, 10
HAWO	Hairy Woodpecker	Dryobates villosus	1
HOWR	House Wren	Troglodytes aedon	2, 3, 9
INBU	Indigo Bunting	Passerina cyanea	1
MALL	Mallard	Anas platyrhynchos	8, 9
MOWA	Mourning Warbler	Geothlypis philadelphia	3, 8
MODO	Mourning Dove	Zenaida macroura	3, 8, 9
NAWA	Nashville Warbler	Leiothlypis ruficapilla	5
NOCA	Northern Cardinal	Cardinalis cardinalis	1, 2, 3, 4, 5
NOFL	Northern Flicker	Colaptes auratus	8, 9, 10
OVEN	Ovenbird	Seiurus aurocapilla	1, 2, 3, 4, 5, 6, 7
PIWO	Pileated Woodpecker	Dryocopus pileatus	3, 8
PUFI	Purple Finch	Haemorhous purpureus	5
RBGR	Rose-breasted Grosbeak	Pheucticus ludovicianus	1, 2, 7
RBWO	Red-bellied Woodpecker	Melanerpes carolinus	1, 2, 8, 10
REVI	Red-eyed Vireo	Vireo olivaceus	1, 2, 4, 5, 6, 7, 8, 9
RUGR	Ruffed Grouse	Bonasa umbellus	1, 8
RWBL	Red-winged Blackbird	Agelaius phoeniceus	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
SAVS	Savannah Sparrow	Passerculus sandwichensis	10
SCTA	Scarlet Tanager	Piranga olivacea	6
SOSA	Solitary Sandpiper	Tringa solitaria	1
SOSP	Song Sparrow	Melospiza melodia	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
SWSP	Swamp Sparrow	Melospiza georgiana	2, 4, 7, 8, 9, 10

Alpha Code ¹	Common Name	Scientific Name	Point Count Location(s)	
TEWA	Tennessee Warbler	Leiothlypis peregrina	1, 4	
UNWO	Unknown Woodpecker	Picidae sp.	8	
VEER	Veery	Catharus fuscescens	1, 2, 3, 4, 8	
WBNU	White-breasted Nuthatch	Sitta carolinensis	N/A (Incidental)	
WIFL	Willow Flycatcher	Empidonax traillii	8, 9	
WITU	Wild Turkey	Meleagris gallopavo	8, 9, 10	
WODU	Wood Duck	Aix sponsa	4	
WOTH	Wood Thrush	Hylocichla mustelina	1, 3, 4, 5, 6, 7, 8, 9, 10	
WTSP	White-throated Sparrow	Zonotrichia albicollis	5	
YBSA	Yellow-bellied Sapsucker	Sphyrapicus varius	1, 2, 5	
YEWA	Yellow Warbler	Setophaga petechia	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
YTVU	Yellow-throated Vireo	Vireo flavifrons	2	

¹ Species codes are based on standardized four-letter alpha codes defined by the Institute for Bird Populations in 2022. Current species codes are available at: https://www.birdpop.org/docs/misc/Alpha_codes_eng.pdf

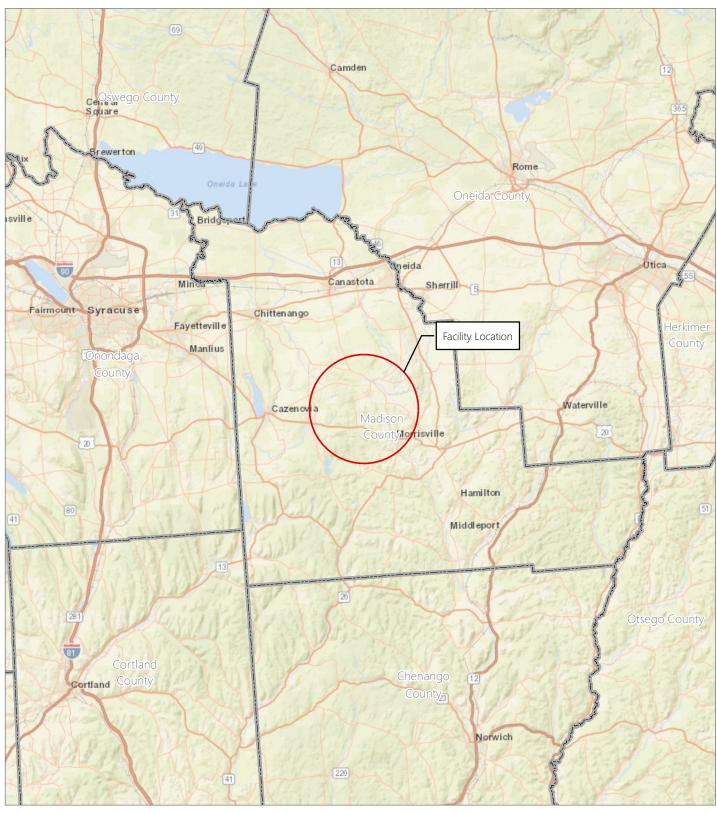
Table 3. Summary of Habitat Metrics for Each Point Count Location

Point Count Location	Primary Wetland Type	Number of Point Count Surveys	Estimated Percent Cover of Open Water	Estimated Percent Cover of Emergent Vegetation	Estimated Percent Cover of Shrub Vegetation	Estimated Percent Cover of Tree Vegetation	Density of Marsh Vegetation ¹	Estimated Average Marsh Vegetation Height (meters)
1	Open Water (Pond)	3	65%	10%	10%	10%	Sparse	0-1
2	Open Water (Marsh)	3	75%	20%	5%	0%	Moderate	0-1
3	Open Water (Pond)	3	75%	5%	10%	10%	Sparse	1-3
4	Open Water (Marsh)	3	30%	10%	50%	5%	Moderate	1-3
5	Open Water (Pond)	3	30%	5%	20%	5%	Moderate	1-3
6	Emergent	3	0%	50%	15%	10%	Moderate	1-3
7	Shrub	3	10%	45%	25%	20%	Moderate	3-6
8	Open Water	3	40%	30%	20%	10%	Moderate	1-3
9	Open Water	3	30%	50%	10%	10%	Moderate	1-3
10	Open Water	3	80%	15%	2%	3%	Sparse	0-1

¹ Marsh vegetation density categories were defined as follows: Sparse (water easily visible through base of widely scattered stems); Moderate (anything that falls between these two extremes); and Rank (water not visible through base of stems at water level and cannot easily push hand through the stems).

FIGURES

Figure 1. Regional Facility Location



Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

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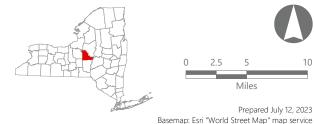
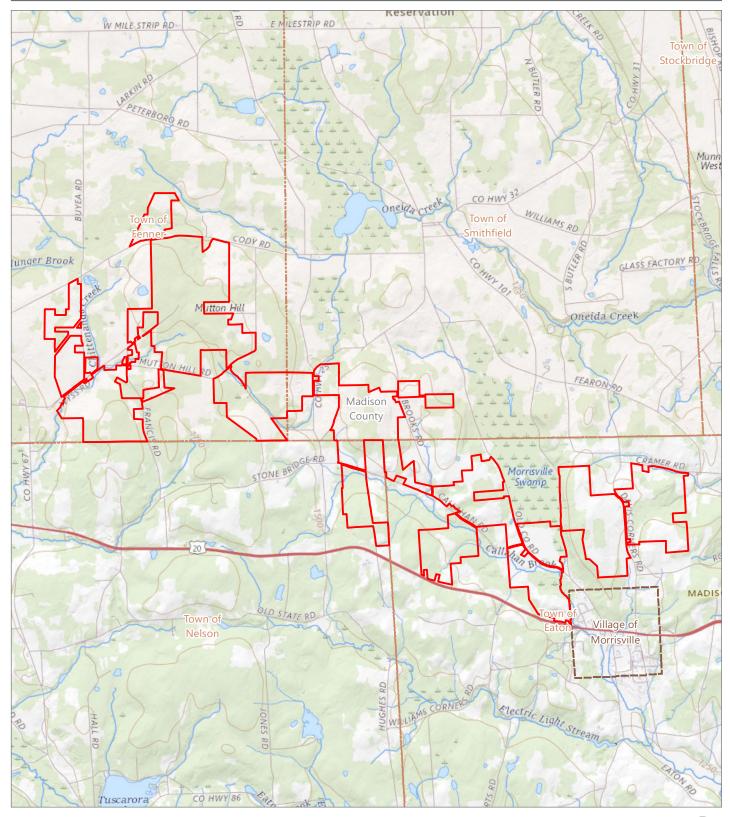




Figure 2. Marsh Bird Survey (MBS) Study Area



Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

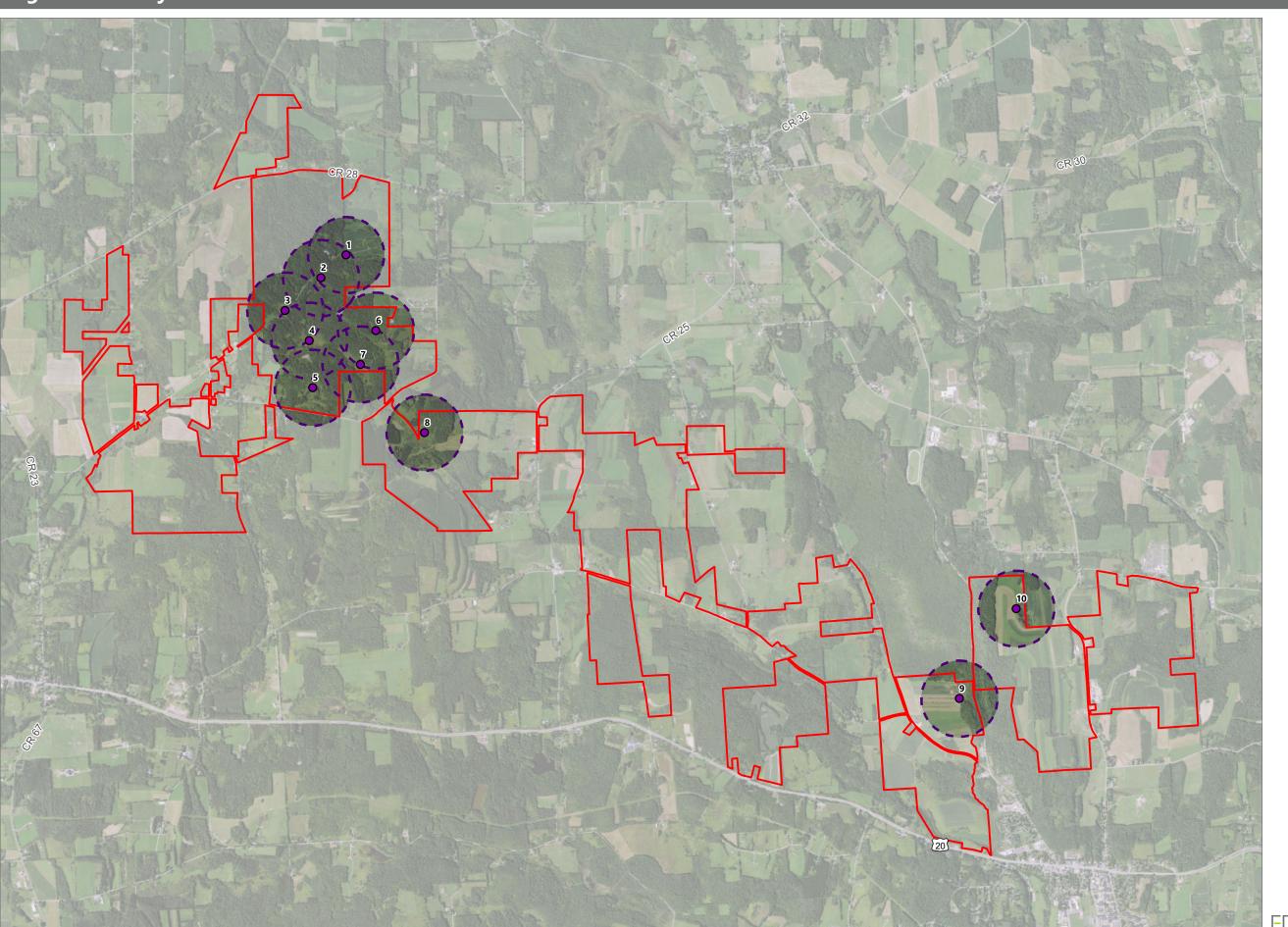
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Figure 3. Survey Locations



Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

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Point Count Location

Area within 400 meters of Point Count Location

MBS Study Area

MBS Study Area



Prepared July 28, 2023 Basemap: NYSDOP "2019" orthoimagery map service

DR.

APPENDIX A

EDR Survey Data Sheets

Field Data Sheet

Marsh Bird Survey

Submitted By: bsmith@edrdpc.com Submitted Time: May 18, 2023 8:30 AM

Survey Information

Project Name: Hoffman Falls Survey Date: May 18, 2023

Surveyor First and Last Name: Brooke Smith

Points Surveyed: 5-7

Survey Start Time (hhmm 24hr): 05:22 Survey End Time (hhmm 24hr): 08:22

Weather Conditions at Start of Survey

Temperature (°F): 30

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: S

Cloud Cover: Mostly Clear (10-25%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes: Frost covered vegetation

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 5

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water (pond)

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Grass, conifers, dogwood, ferns, dandelion

Invasive Plants: Bedstraw

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
COYE YEWA GRCA FISP BCCH OVEN WOTH SOSP WTSP NAWA AMCR NOCA CSWA

BLJA AMRO

Frost covered vegetation, steam above water

Do you need to report observations of another wetland? Yes

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 6

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Emergent

Bearing Direction: Northwest

Noise Level: 0 = No appreciable effect

Dominant Plants: Ferns, dogwood, beech, red maple Invasive Plants: Phragmites, purple loosestrife

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
COYE YEWA OVEN AMRO CANG AMGO RWBL SOSP SCTA EAWP

Notes :

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet







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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 7

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Shrub

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Grasses, viburnum, ferns, dogwood, maple

Invasive Plants: Phragmites

Representative Photos (one each facing wetland, N, E, S, and W):



Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
REVI BCCH RBGR OVEN EATO RWBL SOSP COYE WOTH CSWA YEWA SWSP GRCA

Notes:

EDR

Do you need to report observations of another wetland?

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EDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 36

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: ESE

Cloud Cover: None (Clear)

Visibility: Good (10+ miles; clear)

Precipitation: None (Clear)

Weather Notes:

Were there any notable weather events/changes during the survey? No

If Yes, Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations: 7

Incidental bird species observed outside of timed point count surveys

EDR

Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials:

Overall Survey Notes:

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Field Data Sheet

Marsh Bird Survey

Submitted By: fsimeone@edrdpc.com Submitted Time: May 18, 2023 10:28 AM

Survey Information

Project Name: Hoffman Falls Survey Date: May 18, 2023

Surveyor First and Last Name: Frank Simeone

Points Surveyed: 1-4

Survey Start Time (hhmm 24hr): 05:13 Survey End Time (hhmm 24hr): 08:10

Weather Conditions at Start of Survey

Temperature (°F): 29

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: S

Cloud Cover: None (Clear) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 3

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Pond

Bearing Direction: Northwest

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Goldenrod, horsetail, aster sp, pine spp (white or red), spruce

Invasive Plants: Multiflora rose, honeysuckle, phragmites, reed canary grass

Representative Photos

(one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): COYE, GRCA, HOWR, BWWA, SOSP, EATO, MODO, CSWA, BLJA, YEWA, WOTH, OVEN,

NOCA, RWBL, AMCR, AMRO, BCCH, MOWA

Open water has small island with same forbes and herbaceous veg but with conifer

Do you need to report observations of another wetland?

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 4

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Emergent openwater marsh

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Horsetail, sensitive fern, broadleaf cattail, clover,

Invasive Plants: Honeysuckle, phragmites, reed canary grass

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
WODU, CANG, GRCA, RWBL, EAKI, COYE, YEWA, NOCA, AMRO, CSWA, AMCR, BLJA,

TEWA, GCFL

Notes: SWSP singing constantly, just 1

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet







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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 2

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/marsh

Bearing Direction: South

Noise Level: 0 = No appreciable effect

Dominant Plants: Sensitive fern, nannyberry, willow spp, horsetail

Invasive Plants: Honeysuckle, reed canary grass

Representative Photos (one each facing wetland, N, E, S, and W):



Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names): COYE, REVI, RBGR, RWBL, NOCA, EAKI, AMGO, DEJU, YEWA, CSWA, RBWO, OVEN, YTVI, YBSA, AMRO, HOWR, SOSP

Notes:Willow surround wetland. Emergent wetland outside of open water

Do you need to report observations of another wetland?

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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 1

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water marsh

Bearing Direction: South

Noise Level: 0 = No appreciable effect

Dominant Plants: Willow spp, horsetail, sedge spp, rose spp, nannyberry, maple

Invasive Plants: Phragmites

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet









Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names): RWBL, COYE, SOSP, YEWA, CSWA, AMRO, RUGR, DEJU, TEWA, OVEN, AMRE, BBWA, REVI, BCCH, EAPH, EAKI, NOCA, RBWO, SOSA

Notes:

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Field Data Sheet

(Alpha Codes or Common Names): WBNU,

Surveyor Initials: FS

Overall Survey Notes: SWSP at 2 and 4

EDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 35

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: SSE Cloud Cover: None (Clear) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Were there any notable weather events/changes during the survey? \mbox{No}

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

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Field Data Sheet

Marsh Bird Survey

Submitted By: abutler@edrdpc.com Submitted Time: May 19, 2023 11:43 AM

Survey Information

Project Name: Hoffman Falls **Survey Date:** May 18, 2023

Surveyor First and Last Name: Anna Butler

Points Surveyed: 8, 9, 10

Survey Start Time (hhmm 24hr): 05:28 Survey End Time (hhmm 24hr): 07:39

Weather Conditions at Start of Survey

Temperature (°F): 27

Wind Speed (mph): 0 - 1 (Calm; Smoke rises vertically)

Wind Direction: NNE Cloud Cover: None (Clear) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 10

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water (pond)

Bearing Direction: South

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Cattail, reed grass

Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
BCCH, RWBL, BOBO, GRCA, AMCR, CANG, AMRO, SOSP, WITU

Notes : Primary species RWBL

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet







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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 9

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: East

Noise Level: 2 = Moderate (unable to hear birds beyond 100m)

Dominant Plants: Reed grass, spirea, willow

Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



EDR Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
RWBL, SOSP, WOTH, COYE, AMGO, BCCH, YEWA, BLJA, GRCA, BOBO, AMRO, WITU

Do you need to report observations of another wetland? Yes

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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 8

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water

Bearing Direction: Southwest

Noise Level: 0 = No appreciable effect

Dominant Plants: Cattail, dogwood, fern

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet









Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names): COYE, YEWA, CSWA, MODO, BLJA, RWBL, AMCR, AMGO, MALL, PIWO, ALFL, RUGR, GCFL, SOSP, CANG, SWSP, BWWA, WOTH, REVI, NOFL, AMRO, BAOR

Notes:

Do you need to report observations of another wetland?

Marsh Bird Survey Data Sheet

Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials:

Overall Survey Notes:

FDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 32

Wind Speed (mph): 0 - 1 (Calm; Smoke rises vertically)

Wind Direction: NNE Cloud Cover: None (Clear) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Were there any notable weather events/changes during the survey? \mbox{No}

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

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Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

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Field Data Sheet

Marsh Bird Survey

Submitted By: bsmith@edrdpc.com Submitted Time: June 7, 2023 7:52 AM

Survey Information

Project Name: Hoffman Falls Survey Date: June 7, 2023

Surveyor First and Last Name: Brooke Smith

Points Surveyed: 5-7

Survey Start Time (hhmm 24hr): 05:36 Survey End Time (hhmm 24hr): 08:36

Weather Conditions at Start of Survey

Temperature (°F): 42

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: W

Cloud Cover: Overcast (90-100%) Visibility: Good (10+ miles; clear)

Precipitation: Fog

Weather Notes: Some smoke/ fog (wildfire pollution) covering sky but not effecting ground visibility

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 6

 ${\bf Anthropogenic\ Disturbance/Management\ Practices:\ None\ notable}$

Primary Wetland Cover Type: Emergent

Bearing Direction: West

Noise Level: 0 = No appreciable effect

Dominant Plants: Ferns, maple trees, marsh marigolds dogwood, milkweed

Invasive Plants: N / A

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):

AMRO COYE WOTH RWBL

Notes : N/A

Do you need to report observations of another wetland? Yes

Yes

EDR

Field Data Sheet







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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 7

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Shrub

Bearing Direction: Southeast

Noise Level: 0 = No appreciable effect

Dominant Plants: Ferns, dogwood, maple, sedge, arrowwood

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
GRCA CSWA BWWA EAKI YEWA RWBL SOSP OVEN AMGO SWSP BCCH AMRO RBGR EATO

Notes:

Do you need to report observations of another wetland?

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 5

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Pond

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Sedge, dogwood, conifers, ferns, marsh marigolds

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet









Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): CSWA EATO REVI ALFL GRCA RWBL SOSP OVEN CEDW YBSA YEWA PUFI WOTH

Notes:

Do you need to report observations of another wetland?

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Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials:

Overall Survey Notes:

FDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 45

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: W

Cloud Cover: Overcast (90-100%) Visibility: Good (10+ miles; clear)

Precipitation: Fog Weather Notes:

Were there any notable weather events/changes during the survey? \mbox{No}

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

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Field Data Sheet

Marsh Bird Survey

Submitted By: fsimeone@edrdpc.com Submitted Time: June 7, 2023 1:55 PM

Survey Information

Project Name: Hoffman Falls Survey Date: June 7, 2023

Surveyor First and Last Name: Frank Simeone

Points Surveyed: 1-4

Survey Start Time (hhmm 24hr): 05:26 Survey End Time (hhmm 24hr): 07:33

Weather Conditions at Start of Survey

Temperature (°F): 43

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: WSW

Cloud Cover: Mostly Cloudy (50% - 90%)

Visibility: Fair (0.62-10 miles; mist or light/moderate precipitation)

Precipitation: Other - Describe in notes Weather Notes: Wildfire smoke haze

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 2

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/marsh

Bearing Direction: South

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Sedge, willow, sensitive fern, dogwood,

Invasive Plants: Honeysuckle

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
VEER, RWBL, AMRE, BCCH, COYE, AMRO, CEDW, BAWW, RBGR, AMCR, GRCA, BWWA

Notes : None

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet







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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 1

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/pond

Bearing Direction: Southeast

Noise Level: 0 = No appreciable effect

Dominant Plants: Willow, clover, dandelion, grass, dogwood, fir, rubus spp, sedge

Invasive Plants: Phragmites, Multiflora rose, honeysuckle

Representative Photos (one each facing wetland, N, E, S, and W):



Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names):

OVEN, GRCA, INBU, RBGR, COYE, SOSP, WOTH, AMRO, EAKI, BLJA, HAWO, AMCR, GCKI, CSWA

Notes:

Do you need to report observations of another wetland?

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 4

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/marsh

Bearing Direction: Northeast

Noise Level: 0 = No appreciable effect

Dominant Plants: Dogwood, sedge, sensitive fern, goldenrod, honeysuckle, willow, spruce, fir, pine

Invasive Plants: Phragmites

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): RWBL, COYE, GRCA, WOTH, REVI, SOSP, YEWA, ALFL, CSWA, BRTH, GCFL, NOCA,

Notes:

Do you need to report observations of another wetland?

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 3

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/pond

Bearing Direction: Northwest

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Goldenrod, willow, grass, clover, bedstraw, dandelion, dogwood, vetch, ostrich fern, sedge, spruce, pine, fir, aspen

Invasive Plants: Phragmites, Multiflora rose, honeysuckle

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
ALFL, SOSP, CSWA, COYE, AMRO, EATO, GCFL, NOCA, PIWO, VEER, OVEN, AMCR, BLJA, YEWA, BCCH, GRCA, RWBL

Weather Conditions at End of Survey

Temperature (°F): 44

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: W

Cloud Cover: Overcast (90-100%)

Visibility: Fair (0.62-10 miles; mist or light/moderate precipitation)

Precipitation: Other - Describe in notes

Weather Notes: Wildlife smoke haze during entire survey

Were there any notable weather events/changes during the survey? \mbox{No}

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)?

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

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Field Data Sheet

Marsh Bird Survey

Submitted By: abutler@edrdpc.com Submitted Time: June 9, 2023 11:43 AM

Survey Information

Project Name: Hoffman Falls Survey Date: June 7, 2023

Surveyor First and Last Name: Anna Butler

Points Surveyed: 8, 9, 10

Survey Start Time (hhmm 24hr): 05:51 Survey End Time (hhmm 24hr): 08:10

Weather Conditions at Start of Survey

Temperature (°F): 39

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: NNW

Cloud Cover: Overcast (90-100%)

Visibility: Fair (0.62-10 miles; mist or light/moderate precipitation)

Precipitation: Fog

Weather Notes: Fog mixed with wildfire smoke

FDR

Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials: FS

Overall Survey Notes:

Marsh Bird Survey Data Sheet Page 66 of 117

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 8

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water

Bearing Direction: West

Noise Level: 0 = No appreciable effect

Dominant Plants: Cattail, sensitive fern, willow, dogwood

Invasive Plants: Honeysuckle

Representative Photos

(one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names): RWBL, WITU, ALFL, UNWO, AMGO, REVI, AMCR, MODO, COYE, YEWA, AMRO, BLJA, CANG, WIFL, WOTH

Notes : Two beaver lodges

Do you need to report observations of another wetland?

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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 9

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: East

Noise Level: 2 = Moderate (unable to hear birds beyond 100m)

Dominant Plants: Reed grass, dogwood

Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet









Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): RWBL, CANG, AMRO, BLJA, WOTH, COYE, WIFL, SOSP, MALL, YEWA, AMGO, HOWR

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 10 Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: East

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Reed grass, cattail Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): RWBL, AMRO, GRCA, SOSP, AMCR, SAVS, RBWO, NOFL, BOBO

Notes :

Do you need to report observations of another wetland?



Weather Conditions at End of Survey

Temperature (°F): 41

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: NNW

Cloud Cover: Overcast (90-100%)

Visibility: Fair (0.62-10 miles; mist or light/moderate precipitation)

Precipitation: Other - Describe in notes

Weather Notes: Wildfire smoke

Were there any notable weather events/changes during the survey? \mbox{No}

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)?

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

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Field Data Sheet

Marsh Bird Survey

Submitted By: bsmith@edrdpc.com Submitted Time: June 23, 2023 7:34 AM

Survey Information

Project Name: Hoffman Falls Survey Date: June 23, 2023

Surveyor First and Last Name: Brooke Smith

Points Surveyed: 5-7

Survey Start Time (hhmm 24hr): 05:19 Survey End Time (hhmm 24hr): 07:30

Weather Conditions at Start of Survey

Temperature (°F): 63

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: SSE

Cloud Cover: Overcast (90-100%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials:

Overall Survey Notes:

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 5

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water (pond)

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Grasses, dogwood, conifers

Invasive Plants: Bedstraw

Representative Photos

(one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







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Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
COYE EATO BCCH AMGO GRCA CSWA SOSP WOTH YEWA ALFL CEDW AMRO

Notes :

Do you need to report observations of another wetland? Yes

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Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 6

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Emergent

Bearing Direction: Northwest

Noise Level: 0 = No appreciable effect **Dominant Plants:** Ferns and maples

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):

OVEN AMGO REVI COYE BLJA

Notes:

Do you need to report observations of another wetland? Yes

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 7

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Shrub

Bearing Direction: Southeast

Noise Level: 0 = No appreciable effect Dominant Plants: Maples ferns dogwood

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



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Marsh Bird Survey Data Sheet

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EDR









EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
AMGO YEWA BCCH REVI COYE BLJA SWSP SOSP RWBL

Notes :

Do you need to report observations of another wetland?

Weather Conditions at End of Survey

Temperature (°F): 64

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: SE

Cloud Cover: Overcast (90-100%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Were there any notable weather events/changes during the survey? $\ensuremath{\mathsf{No}}$

If Yes. Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)?

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

Marsh Bird Survey Data Sheet Page 89 of 117

Field Data Sheet

Marsh Bird Survey

Submitted By: fsimeone@edrdpc.com Submitted Time: June 23, 2023 7:41 PM

Survey Information

Project Name: Hoffman Falls Survey Date: June 23, 2023

Surveyor First and Last Name: Frank Simeone

Points Surveyed: 1-4

Survey Start Time (hhmm 24hr): 05:23 Survey End Time (hhmm 24hr): 08:07

Weather Conditions at Start of Survey

Temperature (°F): 65

Wind Speed (mph): 0 - 1 (Calm; Smoke rises vertically)

Cloud Cover: Mostly Cloudy (50% - 90%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

FDR

Field Data Sheet

(Alpha Codes or Common Names):

Surveyor Initials:

Overall Survey Notes:

Marsh Bird Survey Data Sheet Page 90 of 117

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 4

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/marsh

Bearing Direction: East

Noise Level: 0 = No appreciable effect

Dominant Plants: Sedge, sensitive fern, cattail, dogwood, pine, spruce, fir,

Invasive Plants: Honeysuckle, reed canary grass, phragmites,

Representative Photos

(one each facing wetland, N, E, S, and W):









Marsh Bird Survey Data Sheet Page 93 of 117 **EDR**

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): ALFL, RWBL, VEER, WOTH, RWBL, BCCH, SOSP, OVEN, COYE, YEWA, GRCA, CEDW, REVI

Notes: 2 SWSP

Do you need to report observations of another wetland?

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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 3

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/pond

Bearing Direction: Northwest

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Goldenrod, daisy, bedstraw, oak, sensitive fern, horsetail, willow,

Invasive Plants: Multiflora rose, phragmites, red canary grass, honeysuckle

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names):

OVEN, GRCA, BLJA, COYE, YEWA, BAOR, CHSP, AMRO, DEJU, SOSP, CSWA, DOWO, WOTH, EAKI, HOWR, AMCR

Notes:

Do you need to report observations of another wetland?

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 1

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/pond

Bearing Direction: Northwest

Noise Level: 0 = No appreciable effect

Dominant Plants: Grass, dandelion, goldenrod, fir, spruce, willow

Invasive Plants: Multiflora rose, phragmites

Representative Photos (one each facing wetland, N, E, S, and W):



Marsh Bird Survey Data Sheet

Marsh Bird Survey Data Sheet

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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
VEER, EAWP, SOSP, NOCA, OVEN, RBWO, REVI, BLJA, WOTH, AMGO, YEWA, YBSA

Do you need to report observations of another wetland? $\ensuremath{\mathsf{Yes}}$

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 2

Anthropogenic Disturbance/Management Practices: None notable

Primary Wetland Cover Type: Open water/marsh

Bearing Direction: South

Noise Level: 0 = No appreciable effect

Dominant Plants: Sedge, sensitive fern, willow, nannyberry, dogwood, pine

Invasive Plants: Reed canary grass

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
RWBL, GRCA, SOSP, NOCA, CSWA, COYE, AMCR, YEWA, EAKI, BCCH, YBSA

Notes :

EDR

Field Data Sheet







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EDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 67

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: ESE

Cloud Cover: Mostly Cloudy (50% - 90%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes:

Were there any notable weather events/changes during the survey? No

If Yes, Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys

EDR

Field Data Sheet

(Alpha Codes or Common Names): MOWA, EATO,

Surveyor Initials: FS

Overall Survey Notes:

2 SWSP heard at 4

EDR

Field Data Sheet

Marsh Bird Survey

Submitted By: abutler@edrdpc.com Submitted Time: June 27, 2023 2:43 PM

Survey Information

Project Name: Hoffman Falls Survey Date: June 23, 2023

Surveyor First and Last Name: Anna Butler

Points Surveyed: 8, 9, 10

Survey Start Time (hhmm 24hr): 05:42 Survey End Time (hhmm 24hr): 07:48

Weather Conditions at Start of Survey

Temperature (°F): 60

Wind Speed (mph): 4 - 7 (Light Breeze; Leaves rustle)

Wind Direction: N

Cloud Cover: Mostly Cloudy (50% - 90%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear) Weather Notes: 30.03 pressure

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EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 9

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: East

Noise Level: 2 = Moderate (unable to hear birds beyond 100m)

Dominant Plants: Willow, sensitive fern, reed grass

Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



EDR

Field Data Sheet







Incidental bird species observed during timed point count surveys

(Alpha Codes or Common Names):
WOTH, AMRO, SWSP, REVI, RWBL, SOSP, HOWR, COYE, YEWA, NOFL, BOBO, MODO,
AMCR, WIFL

Notes : Road close to wetland

Do you need to report observations of another wetland?

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 10

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: Southeast

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)

Dominant Plants: Reed grass, cattail

Invasive Plants: Reed grass

Representative Photos (one each facing wetland, N, E, S, and W):



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Marsh Bird Survey Data Sheet

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EDR

Field Data Sheet







EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names): RWBL, BOBO, COYE, GRCA, SWSP, SOSP, WOTH, YEWA, AMGO, SAVS

Notes :

Do you need to report observations of another wetland? $\ensuremath{\mathsf{Yes}}$

Marsh Bird Survey Data Sheet Marsh Bird Survey Data Sheet Page 111 of 117 Page 112 of 117

EDR

Field Data Sheet

Wetland Condition Observations

Corresponding Point ID(s): 8

Anthropogenic Disturbance/Management Practices: Traffic Noise

Primary Wetland Cover Type: Open water

Bearing Direction: West

Noise Level: 1 = Faint (dog barking, car passing, distant traffic)Dominant Plants: Sensitive fern, goldenrod, cattail, dogwood

Invasive Plants:

Representative Photos (one each facing wetland, N, E, S, and W):



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EDR

Field Data Sheet

Incidental bird species observed during timed point count surveys (Alpha Codes or Common Names):
WOTH, VEER, RWBL, COYE, YEWA, SOSP, GRCA, BLJA, ALFL, NOFL, RBWO, AMGO

Notes :

Do you need to report observations of another wetland? $\ensuremath{\mathsf{No}}$

EDR

Field Data Sheet







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EDR

Field Data Sheet

Weather Conditions at End of Survey

Temperature (°F): 64

Wind Speed (mph): 1 - 3 (Light Air; Smoke drifts)

Wind Direction: N

Cloud Cover: Mostly Cloudy (50% - 90%) Visibility: Good (10+ miles; clear) Precipitation: None (Clear)

Weather Notes: Two light rain showers between survey points

Were there any notable weather events/changes during the survey? No

If Yes, Describe (Notes):

Bird Observation Summary

Were any state-listed threatened or endangered species observed?

Were any state-listed species of special concern observed?

Were probable, possible, or confirmed breeding behaviors observed for any Listed Species (Endangered/Threatened/Special Concern)? $\ensuremath{\mathsf{No}}$

Additional Photo(s):

Were any alternate point count survey locations used due to access or visual constraints?

Alternate Point Count Survey Locations:

Incidental bird species observed outside of timed point count surveys



(Alpha Codes or Common Names):

Surveyor Initials: AB

Overall Survey Notes:

Marsh Bird Survey Data Sheet

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REDACTED – Permit Application No. 23-00038	

APPENDIX B

NYSDEC Marsh Bird Monitoring Survey and Sample Habitat Data Sheets

• New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 5/18/23 Observer(s): FRANCE 5 MECANE	Secondary	Species:		For all secondary focal species:
Project Name: 21028 116 Frame	COMO		WIFL SWSP	At each point, record each individual on separate line. Only mark minute segment in which <u>first</u>
Region (circle): 1 2 3 4 5 6 (7) 8 9 Survey replication (circle): 6 2 3	WISN	MAWR	3 W 3 L	detected. Indicate distance band: 0-50m, 50-100m, >100m.

**Put an	"S" in the	e appropriate	colu	umn	if th	e bire	d wa	is sec	en, a	"1"	if th	e bir	d wa	s he	ard, and "	1S" if	both h	neard a	nd seen	
								ring												
Point #	Start time (military)	Species	Pass 0-1	Pass 1-2	Pass 2-3	Pass 3-4	Pass 4-5	LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call type ^d	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
3	514	-	Ì												100	-	2	<u> </u>	NW	NO 800 6 16(16)
4	618	SWBP		1	1	1		1	1	1	/	1	1	1	SUNG	96-14	12	d	E	31/606 (GASTANTLY
2	709	SWSP	1	1	15	15	1		1	1					51) NG	450	2	-0	5	
1	751	7.7							, ,								2	-	3	
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*Wind code:	bSky code:	'Background noise	^d C all type:	'Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: coo, kak, ank	0 unaided
1 wind direction shown by smoke drift	1 partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	1 rangefinder
2 wind felt on face, leaves rustle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA kek-burr, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	A intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, crested wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ek	
	8 rain showers		If call is not listed above, describe th	e call in comment section

W3-1,1,0 w20,1,0
WY-1,1,0 au 10,1,0

♦ New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 18 May 2023 Observer(s): AB	Secondary	Species:		For all secondary focal species:
	СОМО		WIFL	At each point, record each individual on separate line. Only mark minute segment in which <u>first</u>
	AMCO	COTE	SWSP	detected. Indicate distance band: 0-50m, 50-
Region (circle): 1 2 3 4 5 6 7 8 9 Survey replication (circle): 1 2 3	WISN	MAWR		100m, >100m.

**Put an	"S" it 1 h	e appropriate	e col	umn	if th	e bir	d wa	is se	en, a	"1"	if th	e bii	rd wa	as he	eard, and '	'1S" if	both h	neard a	nd seen	
			**]	Resp	onc	led	Du	ring	;:											
Point #	Start time (military)	Species	Pass 0-1			Pass 3-4		LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call type ^d	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
10	528															İ				de person buts detroyed
9	618																			No marsh birds detected
8	728	SWSP	1												5:24	0.50	0	5	W	
															-					
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	1																			

*Wind code:	bSky code:	Background noise :	dC all type:	°Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: coo, kak, ank	0 unaided
1 wind direction shown by smoke drift	I partly cloudy/variable	I faint	SORA: whinny, perweep, keep	l rangefinder
2 wind felt on face, leaves rustle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA: kek-burr, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, crested wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ek	
	8 rain showers		If call is not listed above, describe the	ne call in comment section.

• New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 518127 Observer(s): 2000	Secondary	Species:		For all secondary focal species:
Project Name: Hoffing Falls Wind	СОМО	BLTE	WIFL	At each point, record each individual on separate line. Only mark minute segment in which <u>first</u>
	AMCO	COTE	SWSP	detected. Indicate distance band: 0-50m, 50-
Region (circle): 1 2 3 4 5 6 7 8 9 Survey replication (circle): 1 2 3	WISN	MAWR		100m, >100m.

**Put an	"S" in the	appropriate	colu	ımn	ifth	e bire	d wa	is see	en, a	"1"	if th	e bir	d wa	as he	ard, and "	'1S" if	both h	eard an	nd seen	
	1					led														
Point #	Start time (military)						Pass 4-5	LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call type ^d	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
5	0527	none								- 3									8	
																1				
lo	Oldiz	none																	0	
					_															
7	0722	Swap	18					;								D-5	O	0	G	
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*Wind code:	bSky code:	Background noise:	^d C all type:	'Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: coo, kak, ank	0 unaided
1 wind direction shown by smoke drift	l partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	l rangefinder
2 wind felt on face, leaves ristle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	K1RA: kek-burr, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, crested wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ek	
	8 rain showers		If call is not listed above, describe the	ne call in comment section.

HABITAT DATASHEET - NEW YOR	K STATE MA	RSH BIRD	MONITOR	ING PROGE	RAM
Project Name: 11628 HOFFMAN				Region:	
Date (e.g. 05 May 2013): 18 MAY 2.02 Dserver(s):	F 5.				
Survey point (e.g. X-0001): 3	Coordinates:	42,95226	7"N -79	C. 743656	· w
Water depth (cm): 66 / 6@ PG(~T How acces	ssed (circle):	canoe	motorboat	walk	wade
Cover type: Emergent Shrub Open H2C Percent cover: 5 % 16 % 75%	Floating	Trees 10/2	Snags	Mudflat	Upland
Dominant plant species: 1. HIGHSETAIL 2. ASTER SPECGENRED)		<u> % Ршт</u>	le loosestrife:	% Reed canary % Honeysuc	grass) 16 %
3. REED CANARY Edge type (circle): roadside/marsh ditch or berm/mars	Yellow iris:	open water	Other:	ior/marsh	
	Moderate	Rank	3-6m >6m		
Stewart & Kantrud wetland cover class (circle one):	Гуре 1 Туре 2	Type 3	Type 4		
Management: (list type and date of management)	Comments:				

		2	9494062	N -75	747 6
Survey point (e.g. X-0001): 4 Water depth (cm): 720 / 4 @ RINT	Co How accessed (c	ordinates:	motorboat	walk	wade
Cover type: Emergent Shrub Percent cover: /0 /6 50/1	Open H2O	Floating Tree	Snags	Mudflat	Upland
Dominant plant species: 1. DOG W GG D 2. REED (ANACY)	(Ph	vasive plants: (circle	Purple loosestrife	write percent	grace /5 %
3. HONEY SUCKLE		Illow iris: %	Other:	TOTTOREYSUCK	70
	or berm/marsh u None Sparse	pland/marsh open Moderate Rai		erior/marsh	
Estimated average <u>marsh</u> vegetation height (meters) (circle one	e): 0-lm 1-3π	3-6m >6m		
Stewart & Kantrud wetland cover class (circ	le one): Type 1	Type 2 Type	Type 4		
Management: (list type and date of management)	ent) Co	omments: BÉAVEI	2 DAM		

HABITAT DAT			STATE MA	RSH BIRD	MONITOR	RING PROGR	RAM
Project Name: 21028	HOFFN	AN				Region 7	
Date (e.g. 05 May 2013): 18	MATI 2023	Observer(s):	FRANK				
Survey point (e.g. X-0001):	2		Coordinates;	42,95	53285	·N -7.	5.7404862
Water depth (cm): 250	30 POINT	How accesse	d (circle):	canoe	motorboat	walk	wade
Cover type: Emergent	Shrub	Open H ₂ O	Floating	Trees	Snags	Mudflat	Upland
Percent cover: 20	5	75					1
Dominant plant species: 1. PETO CANAI		A 55	Invasive plant Phragmites:		pecies present a	nd write percent	20 %
2 WILLOW 3 HONEY SUCK	581		Water chestnut:		iltiflora rose:	Honeysuck	kle: %
3. HONEY SUCK			Yellow iris:	%	Other:		
Edge type (circle): roadside/	marsh ditch	or berm/marsh	upland/marsh	open water	er/mars) inte	rior/marsh	
Density of marsh vegetation	(circle one):	None Spar	se Moderate	Rank			
Estimated average marsh veg	getation height (meters) (circle	one): 0-1m	1-3m	3-6m >6m		
Stewart & Kantrud wetlando	over class (circ	e one): Ty	pe 1 Type 2	ype 3	Type 4		
Management: (list type and d		ent)	Comments:				

									0
Survey point (e	e.g. X-0001):	,		Coordinates:	42,957	1708 N	-75.	737149	لم
Water depth (c	m): 260/	0 @ POI	How accessed	d (circle):	canoe	motorboa t	walk	wade	
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland	
Percent cover	10	10	65		10	5			
Dominant plan	t species:			Invasive plant	s: (circle all sp	ecies present an	d write percent	cover)	
1. WILL 60	m 581			Phraemites	<u>5 % Рит</u>	le loosestrife	% Reed canary	grass: %	
2. <u>5600</u>	E SPP			Water chestnut:	% <u>Mu</u>	tiflora rose	% Honey suck	2 %	
3. HO	est 14	16		Yellow iris:	%	Other:			
Edge type (circ	le): roadside/i	narsh ditch	or berm/marsh	upland/marsh	epen water	r/marsh inter	ior/marsh		
Density of mar	sh vegetation (circle one):	None (Span	Moderate	Rank				
Estimated aver	age <u>marsh</u> veg	etation height (meters) (circle	one): 0-1m	1-3m	3-6m >6m			
Stewart & Kan	itrud wetland c	over class (circ	e one): Typ	pe 1 Type 2	Type 3	Type 4			
Management: (list type and d	ate of manageme	ent)	Comments:				2	
FAR2M	POND)						~ .	

HABITAT DATASHEET - NEW YORK STATE MARSH BIRD MONITORING PROGRAM Region: 7 Project Name: Hoffman Talls Date (e.g. 05 May 2013): 8 May 2013 Observer(s): Ab Survey point (e.g. X-0001): Coordinates: Water depth (cm): UC 4 30-40 How accessed (circle): walk > canoe motorboat wade Emergent Cover type: Shrub Open H2O Floating Snags Mudflat Upland Trees 20 30 10 10 Percent cover: <u>Invasive plants:</u> (circle <u>all species present</u> and write <u>percent cover</u>) Dominant plant species: Phragmites: Purple loosestrife: % Reed canary grass: Water chestnut: Multiflora rose: % Honeysuckle: Yellow iris: % Other: open water/marsh) Edge type (circle): roadside/marsh ditch or berm/marsh upland/marsh interior/marsh Moderate Density of marsh vegetation (circle one): Sparse Rank Estimated average marsh vegetation height (meters) (circle one): 1-3m 3-6m >6m Stewart & Kantrud wetland cover class (circle one): Type 2 Type 4 Type 1 Type 3 (Management: (list type and date of management) Comments: HABITAT DATASHEET - NEW YORK STATE MARSH BIRD MONITORING PROGRAM Survey point (e.g. X-0001): Coordinates

Survey point (c	.g. 10-0001).			Cool dillates.				
Water depth (c	m):		How accessed	d (circle):	canoe	motorboat	walk	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:								
Dominant plan	t species:			Invasive plant	s: (circle all spe	cies present and	write percent of	cover)
1				Phragmites:	% Pumpl	e loosestrife:	% Reed canary	grass: %
2.				Water chestnut:	% Mult	iflora rose:	% Honeysuck	le: %
3.				Yellow ins:	%	Other:		
Edge type (circ	le): roadside/n	narsh ditch	or berm/marsh	upland/marsh	open water	/marsh interi	or/marsh	
Density of mar	sh vegetation (circle one):	None Spar	se Moderate	e Rank			
Estimated aver	age <u>marsh</u> veg	etation height (meters) (circle	one): 0-1m	1-3m 3	-6m >6m		
Stewart & Kan	trud wetland co	over class (circ	le one): Typ	pe 1 Type 2	Type 3	Type 4		
Management: (list type and da	ate of manageme	ent)	Comments:				

HABITAT DATASHEET - NEW YORK STATE MARSH BIRD MONITORING PROGRAM

Project Name	HOFFMAN.	चि॥ s					Region: 7	
Date (e.g. 05 M	fay 2013): \ 8 (May 2023	Observer(s):	AB				
		*						
Survey point (e	e.g. X-0001):	0	exc.	Coordinates:				
Water depth (c				d (circle):	canoe	motorboat	(walk)	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:	15	2	80		3			
Dominant plan	t species:	1		Invasive plant	ts: (circle <u>all spe</u>	ecies present an	nd write percent	cover)
1. attai				Phragmites:	% Purp	le loosestrife:	% Reed canary	grass: 5 %
2. Pecd	C18158			Water chestnut:	% <u>Mul</u>	tiflora rose:	% Honeysuck	de: %
3. Horreys	rece			Yellow ins:	%	Other:		
Edge type (circ	le): roadside/n	narsh ditch	or berm/marsh	upland/marsh	open water	r/marsh inter	ior/marsh	
Density of mar	sh vegetation (circle one):	None Spar	se Moderat	e Rank			
Estimated aver	age <u>marsh</u> veg	etation height ((meters) (circle	one): (0-1m	1-3m	3-6m >6m		
Stewart & Kan	trud wetland c	over class (circ	le one): Ty	pe 1 Type 2	2 Type 3	Type 4		
Management:	(list type and da	ate of manageme	ent)	Comments:				

Survey point (e	.g. X-0001):	l		Coordinates.				
Water depth (c	m): (2)	, Boilisty	How accessed	d (circle)	canoe	motorboat	(walk)	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:	50	10	30		10			
Dominant plan				Invasive plant	s: (circle <u>all s</u>	pecies present an	d write percent	cover)
I Mesel a	1745 h			Phragmites:	<u>%</u> Pu	ple loosestrife:	% Reed canary	grass: / 7 %
2. WILLS	W			Water chestnut:	% <u>M</u>	ultiflora rose:	% Honeysuck	de: %
3. Spire.	On.			Yellow iris:	%	Other:		
Edge type (circ	le): roadside/n	narsh ditch	or berm/marsh	upland/marsh	open water	er/marsh) interi	or/marsh	
Density of mar	sh vegetation (circle one):	None Spars	se Moderate	Rank	The second of th		
Estimated aver	age <u>marsh</u> veg	etation height (meters) (circle	one): 0-1m	(1-3m)	3-6m >6m		
Stewart & Kan	trud wetland c	over class (circ	le one): Typ	oe l Type 2	Type 3	Type 4		
Management: (list type and da	ite of managem	ent)	Comments:				

HAB	SITAT DATA	ASHEET - N	EW YORK	STATE MA	RSH BIR	D MONITOR	ING PROGR	RAM
Project Name :	Hoffman	n Fails W	hind				Region:	
Date (e.g. 05 M	fav 2013): 5	18/2033	Observer(s):	Brooke	Smith	h		
Survey point (e	e.g. X-0001): 💆	3		Coordinates:				
Water depth (c	m); O-20)cm	How accesse	d (circle):	canoe	motorboat	walk	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:	(5)	20	30		5			40
Dominant plan	t species:			Invasive plant	s: (circle all	species present and	d write percent	cover)
1. dogw	box			Phragmites:	% <u>P</u>	urple loosestrife:	% Reed canary	grass: %
2. 9 (886	8			Water chestnut:	% 1	Multiflora rose:	% Honeysuck	de: %
3. Ferns				Yellow iris.	0 %	Other:		
Edge type (circl	le): roadside/n	narsh ditch o	or berm/marsh	upland/marsh	(open wa	ater/marsh interi	or/marsh	
Density of mars	sh vegetation (circle one):	None Spars	se Moderate	Rank			
Estimated aver	age <u>marsh</u> vege	etation height (meters) (circle	one): 0-1m	1-3m	3-6m >6m		
Stewart & Kan	trud wetland co	over class (circl	e one): Typ	pe l Type 2	Type 3	Type 4		
Management: (list type and da	te of manageme	ent)	Comments:				
				man	, mad	e bard		

Survey point (e	.g. X-0001):	O		Coordinates:				
Water depth (c	m): 20m		How accessed	d (circle):	canoe	motorboat	walk	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:	50	15			10	15		0
Dominant plant	t species:			Invasive plant	s: (circle all spe	cies present and	l write percent of	over)
1. hed m	we_			Phragmites: 5	% Purp	e loosestrife:	%-Reed canary g	rass: %
2. Fen				Water chestnut:	% Mult	tiflora rose:	% Honeysuck	le: %
3. Beech	Δ			Yellow iris:	%	Other:		
Edge type (circl	e): roadside/m	narsh ditch o	r berm/marsh	upland/marsh	open water.	/marsh interio	or/marsh	
Density of mars	sh vegetation (c	eircle one):	None Spars	se <u>Moderate</u>	Rank			
Estimated avera	age <u>marsh</u> vege	etation height (meters) (circle	one): 0-1m	1-3m 3	-6m >6m		
Stewart & Kan	trud wetland co	ver class (circle	e one): Typ	pe 1 Type 2	Type 3	Type 4		
Management: (list type and da	te of manageme	nt)	Comments:				

HAB	SITAT DATA	ASHEET - N	EW YORK	STATE MA	RSH BIRD	MONITOR	ING PROGR	AM
Project Name:							Region `	
Date (e.g. 05 M	[av 2013]: 5	18/2023	Observer(s):	Broke	Bride	<u> </u>		
Survey point (e	g. X-0001):	7		Coordinates:				
Water depth (c	m): 0-47	C	How accessed	d (circle):	canoe	motorboat	(walk)	wade
Cover type:	Emergent	Shrub	Open H ₂ O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:	45	25	10		20			
Dominant plan	t species:			Invasive plant	s: (circle all spe	cies present an	d write percent	cover)
I. Vibor	nun			Phragmites: 5	%) Purp	le loosestrife:	% Reed canary	grass: %
2. Forms				Water chestnut:	% Mul	tiflora rose:	% Honeysuck	de: %
3. Marie				Yellow iris:	%	Other:		
Edge type (circl	le): roadside/n	narsh ditch o	or berm/marsh	upland/marsh	open water	/marsh inter	ior/marsh	
Density of mars	sh vegetation (circle one):	None Spars	se Moderate	Rank			
Estimated aver	age <u>marsh</u> veg	etation height (meters) (circle	one): 0-1m	1-3m 3	3-6m >6m		
Stewart & Kan	trud wetland co	over class (circl	e one): Typ	ne 1 Type 2	Type 3	Type 4		
Management: (list type and da	ite of manageme	ent)	Comments:				

Survey point (e	.g. A-0001).			Coordinates.				
Water depth (c	m):		How accessed	d (circle):	canoe	motorboat	walk	wade
Cover type:	Emergent	Shrub	Open H2O	Floating	Trees	Snags	Mudflat	Upland
Percent cover:								
Dominant plan	t species:			Invasive plant	s: (circle all spe	cies present and	write percent of	cover)
1				Phragmites:	% Purp	le loosestrife:	% Reed canary	grass: %
2.				Water chestnut:	% Mul	tiflora rose:	% Honevsuck	le: %
3.				Yellow iris:	<u>%</u>	Other:		
Edge type (circ	le): roadside/m	narsh ditch o	or berm/marsh	upland/marsh	open water	/marsh interio	or/marsh	
Density of mars	sh vegetation (c	ircle one):	None Spars	se Moderate	Rank			
Estimated aver	age <u>marsh</u> vege	tation height (meters) (circle	one): 0-1m	1-3m 3	l-6m >6m		
Stewart & Kan	trud wetland co	ver class (circl	e one): Typ	pe 1 Type 2	Type 3	Type 4		
Management: (list type and da	te of manageme	ent)	Comments:				

● New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 7 JUNE 23 Observer(s): FOANK SIME ONE	Secondary	Species:		For all secondary focal species:
Project Name: 21026 HOFTMAN Region (circle): 1 2 3 4 5 6 \$\oldsymbol{0}{8} 9 Survey replication (circle): 1 2 3 3	COMO AMCO WISN	BLTE COTE MAWR	WIFL SWSP	At each point, record each individual on separa line. Only mark minute segment in which <u>firs</u> , detected. Indicate distance band: 0-50m, 50- 100m. > 100m.

**Put an "S" in the appropriate column if the bird was seen, a "1" if the bird was heard, and "1S" if both heard and seen

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Point #	Start time (military)	Species	Pass 0-1	Pass 1-2	Pass 2-3	Pass 3-4	Pass 4-5	LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call type ^d	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
2	526	SWSP	T	1		1	T	Н	T	1		1		1	SONG	0-56	2	D	5	Commence
T	605	7 7 7		-			Ė	Н								0 /			3	
u	649	3654	5		T			П	5				15		SONG	6-50	2	8	NE	SEEN ((F) (115 KT) NEW MEATBY
U	//	5650	1										13	15	CALL	6-90	2	Q	ME	- CAULS UNLY, IRUS SAME?
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*Wind code	bSky code:	Background noise:	dCall type	^e Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: coo, kak, ank	0 unaided
I wind direction shown by smoke drift	I partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	1 rangefinder
2 wind felt on face, leaves rustle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA grunt, ticket, kicker	2 maps / aertal photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA: kek-bur, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, crested wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ek	
	8 rain showers		If call is not listed above, describe	the call in comment section

New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 7 June 2023 Observer(s):	Secondary	Species:		For all secondary focal species:
Project Name: 21025 - Heffman Foils	сомо	BLTE	WIFL	At each point, record each individual on separate line. Only mark minute segment in which first
	AMCO	COTE	SWSP	detected. Indicate distance band: 9-50m, 50-
Region (circle): 1 2 3 4 5 6 (7)8 9 Survey replication (circle): 1 (2) 3	WISN	MAWR		100m, >100m.

**Put an "S" in the appropriate column if the bird was seen, a "1" if the bird was heard, and "1S" if both heard and seen **Responded During: Distance aide Pass 1-2 Pass 0-1 Pass 3-4
Pass 2-3 AMBI 9-10 KIRA 8-9 VIRA 7-8 SORA 6-7 LEBI 5-6 Before / After PBGR 10-11 Distance (m) Start time (military) Call typed Direction Direction of Speaker Point # Comments 551 SWSP W 5009 0-50 723 SWSP 0-5 2100 7.59 10

*Wind code:	*Sky code:	Background noise:	Call type:	'Distance aid:
0 smoke rises vertically	0 clean/few clouds	0 ne noise	LEBI: coo, kak, mk	• unaided
wind threction shown by smoke drift	I partly cloudy/variable	l faint	SORA: whinny, perweep, keep	rangefinder
2 wind felt on face, leaves russle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
leaves and small twigs in constant motion	4 fog or smeke	3 loud (can't hear hirds beyond 50m)	KIRA; kek-burr, grunt	I distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
Small trees sway, created wavelets on inland waters	б ѕпоч		PBGR: owboop, liyena, ek-ek	
	8 rain showers		If call is not listed above, describe	the call in comment section

• New York State Marsh Bird Monitoring Survey Data Sheet

Date (c.g., 14 May 2011) 7 2023 Observer(s): Brocke Smith	Secondary	Species:		For all secondary focal species:
Project Name: Hoffman Fally	сомо	BLTE	WIFL	At each point, record each individual on separate line. Only mark minute segment in which first
	AMCO	COTE	SWSP	detected. Indicate distance band: 0-50m, 50-
Region (circle): 1 2 3 4 5 7 8 9 Survey replication (circle): 1 2 3	WISN	MAWR		100m, >100m.

			**1					ring	:	_	_	_	_							
	Start time (military)	Species	Pass 0-1	Pass I -2	Pass 2-3	Pass 3-4	Pass 4-5	LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call typed	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
	0536	None	1																	
2	(16:17	RASS	11													0-5	0	P	SE.	do the South
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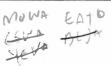
*Wind code:	Sky code:	'Background noise :	^d C all type:	*Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: coo, kak, ank	0 unaided
1 wind direction shown by smoke drift	I partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	l rangefinder
2 wind felt on face, leaves rustle	2 cloudy or overcast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA: kek-burt, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 range finder and maps
5 small trees sway, crested wavelets on inland waters	6 snow	The state of the s	PBGR: owhoop, hyena, ek-ek	
ALC: NO.	8 rain showers	6.00	If call is not listed above, describe	the call in comment section.

ate (e.g., 14 May 2011): 23 JUNE 2023 Observer(s): CRANK SYNEUNE	Secondary	Species:		For all secondary focal species :
roject Name: To FEMAN 21628	СОМО		WIFL	At each point, record each individual on separate line. Only mark mimite segment in which <u>first</u>
	AMCO	COTE	SWSP	detected. Indicate distance band: 0-50m, 50-
egion (circle): 1 2 3 4 5 6 (7) 8 9 Survey replication (circle): 1 2 (3)	WISN	MAWR		100m. >100m.

**Put an "S" in the appropriate column if the bird was seen, a "1" if the bird was heard, and "1S" if both heard and seen

Tut an	3 III UI	e appropriate									11 111	C 1/11	u w	15 116	aru, ariu	1.5 11	DOULL	icaru a	nu scen	*
_			**	Resp	ond	led	Du	ring	; :								_			
Point #	Start time (military)	Species	Pass ()-1	Pass 1-2	Pass 2-3	Pass 3-4	Pass 4-5	LEBI 5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	Before / After	Call type ^d	Distance (m)	Distance aide e	Direction	Direction of Speaker	Comments
4	526	SUSP	T	1		1	1	T	1	T	1	1	(1	SONG	50-100	2	6	E	DIFFERENT BILDS
11	11	SWSP			1	1	1-	1	1	1	T	1		1	SONL	0-50		d	E	6
3	605																			
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*Wind code:	^b Sky code:	Background noise:	dCall type:	^e Distance aid:
0 smoke rises vertically	0 clear/few clouds	0 no noise	LEBI coo, kak, ank	0 unaided
I wind direction shown by smoke drift	I partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	l rangefinder
2 wind felt on face, leaves rustle	2 eloudy or overeast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, ticket, kicker	2 maps / aerial photos
3 leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA: kek-burr, grunt	3 distance markers
4 wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, crested wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ek	
	8 rain showers		If call is not listed above, describe ti	he call in comment section.



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Pow York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 23 June 2023 Observer(s): AB	Secondar	ry Species:		For all secondary focal species:
Project Name: 21025 - Hoffmon Falls	COMO	BLTE	WIFL	At each point, record each individual on separate line, Only mark minute segment in which <u>first</u>
	AMCO	COLE	SWSP	detected. Indicate distance band: 0-50m, 50-
Riegi on (circle): 1 2 3 4 5 6 8 9 Survey replication (circle). 1 2 3	WISN	MAWR		100m, > 100m

**Put an "S" in the appropriate column if the bird was seen, a "1" if the bird was heard, and "1S" if both heard and seen **Responded During: Distance aide e Pass 2-3 Pass 1-2 Pass 0-1 Pass 3-4 SORA 6-7 LEBI 5-6 Pass 4-5 Distance (m) VIRA 7-8 PBGR 10-11 AMISI 9-10 KIRA 8-9 Start time (military) Before / After Call typed Direction Direction of Speaker Species Point # Comments 9 5:42 E SWEP 0-50 0 F 5 6279 É 5E 6:30 SWSP 6 -50 0 10 Sima 8 7:37 SWSP 0-54 W Stra 0 SW

Wind code:	"Sky code:	Background noise :	*Call type:	'Distance aid:
I smoke rises vertically	0 clear/few clouds	0 no noise	LEBI: 200, kak, ank	0 unnided
I wind direction shown by smoke drift	I partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	l rangefinder
2 wind felt on tace, leaves mistle	2 cloudy or overenst	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, tieket, kicker	2 maps / aeriai photos
I leaves and small twigs in constant motion	4 fog er senake	3 loud (can't hear birds beyond 50m)	KIRA: kek-burr, grunt	3 distance markers
wind raises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-hink, kok	4 rangefinder and maps
small trees sway, crested wavelets on inland waters	6 STHONY		PBGR: owhoop, hyena, ek-ck	
	8 rain showers		If call is not listed above, describe	the eall in comment section

Survey Date:June 23, 2023

P New York State Marsh Bird Monitoring Survey Data Sheet

Date (e.g., 14 May 2011): 10 June 2023 Observer(s): Provide Smith	Secondary	Species:		For all secondary focal species:
Project Name: 1-12 From Fall 8_	сомо	BLTE	WIFL	At each point, record each individual on separate
5	AMCO	COTE	SWSP	line. Only mark minute segment in which first detected, Indicate distance band: 0-50m, 50-
Region (circle): 1 2 3 4 5 6 7 8 9 Survey replication (circle): 1 2 3	WISN	MAWR		100m, > 100m.

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<u>.</u>	tart	Species	SS (Pass 1-2	SS	Pass 3-4	SS	LEBI	E	IR.	RA	MB	80	Ç,	<u>a</u>	stan	lanc	Jie) jes jes	
Point #	Start time	cies	은	1-2	2-3	4	15	5-6	SORA 6-7	VIRA 7-8	KIRA 8-9	AMBI 9-10	PBGR 10-11	G	Call typed	Distance (m)	P2.	Direction	ction	
			5	1				0,	~1	٠	•	-10	11-	Before / After	r.	(E)	aide *	2	Direction of Speaker	Comments
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*Wind code:	Sky code	'Background noise :	dCall type:	'Distance aid:
0 smoke maes vertically	0 clear/few clouds	0 no noise	LEBI. coo, kak, mik	0 unaided
I wind direction shown by smoke drift	1 partly cloudy/variable	1 faint	SORA: whinny, perweep, keep	I rangefinder
2 wind felt on face, leaves rustle	2 cloudy or overeast	2 moderate (can't hear birds beyond 100m)	VIRA: grunt, tieket, kicker	2 maps / serial photos
I leaves and small twigs in constant motion	4 fog or smoke	3 loud (can't hear birds beyond 50m)	KIRA: kek-burr, grunt	3 distance markers
4 wind roises dust and loose paper, small branches move	5 drizzle	4 intense (can't hear birds beyond 25m)	AMBI: pump-er-lunk, kok	4 rangefinder and maps
5 small trees sway, created wavelets on inland waters	6 snow		PBGR: owhoop, hyena, ek-ck	
	8 rain showers		If call is not listed above, describe	the call in comment section