

Appendix C

Exhibit A

Replacement Pages for the DEIS

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	2-137
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Appendix F: Bird and Bat Risk Assessment

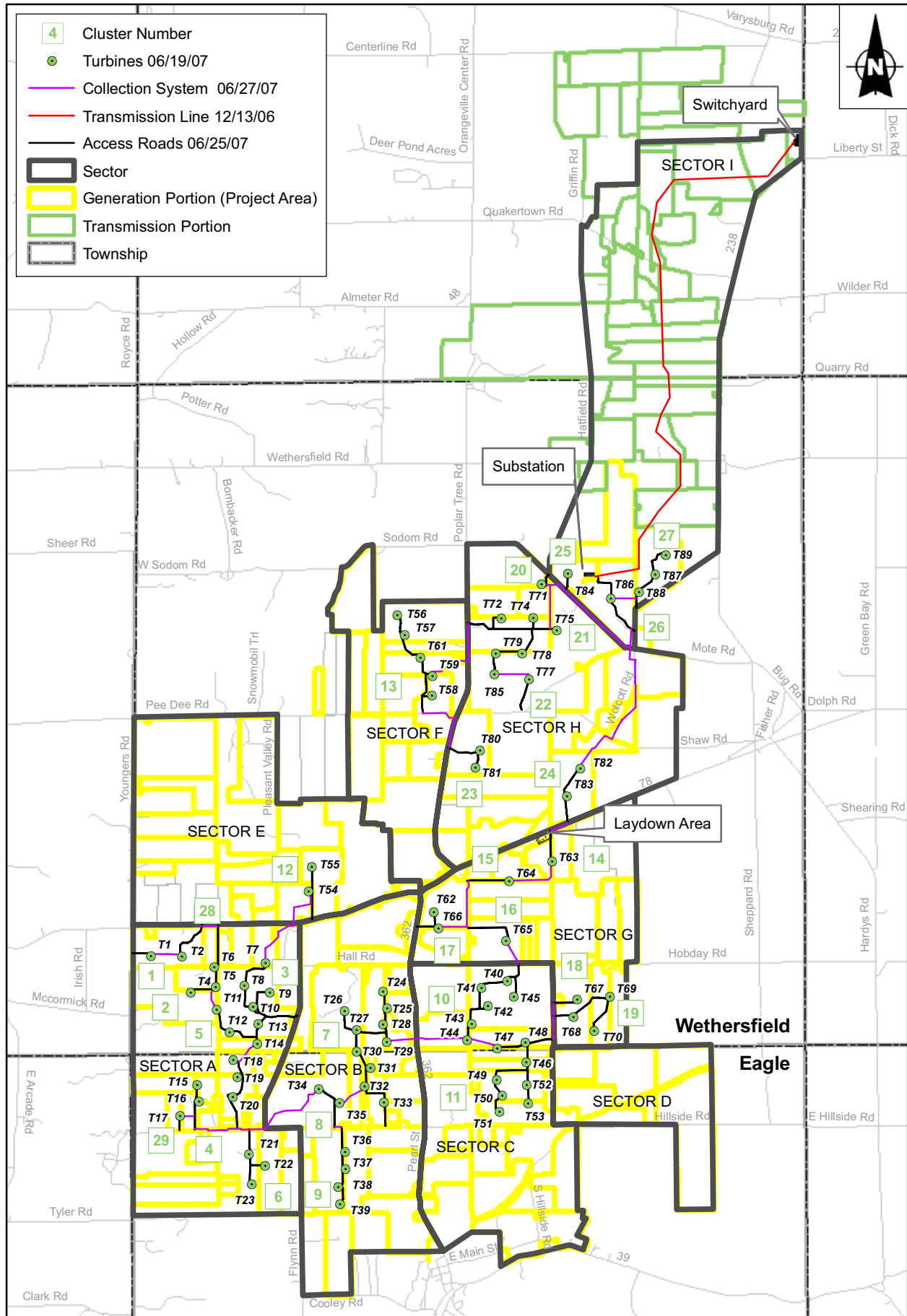
Appendix C, Appendix A, Tables 1 and 2

Appendix C, Appendix B, Tables 1 and 2

Appendix D, Section 3.1 Table 1

Appendix D, Appendix A, Tables 1 and 2

Appendix D, Appendix B, Tables 1 and 2



Source: ESRI, 2005.

**Figure 1.1-2 Project Facilities
 Noble Wethersfield Windpark**



Revised July 2007

2. Environmental Setting and Impacts

2.25 acres of upland buffer regulated by NYS adjacent to the state jurisdictional wetlands. Jurisdictional determinations will be confirmed by the USACE and NYSDEC in the spring of 2007. Tables 2.8-1 and 2.8-2 provide a summary of the temporary and permanent impacts and likely federal and state jurisdiction, respectively.

2.8.1 Construction Impacts

During Project construction, wetlands will be disturbed to provide sufficient access to accommodate construction equipment and staging areas at each turbine location, access road, and collection line, to safely and efficiently erect and construct the facilities. Impacts during construction include all temporary and permanent impacts related to clearing, grading and placement of fill. The majority of the wetlands impacted during construction (0.87 acre) will be returned to pre-construction contours, as such, these impacts are reported as temporary impacts. Use of the 5-acre temporary laydown area will not result in temporary or permanent impacts to wetlands, as no wetlands were identified within the laydown area during field delineations.

Turbines

Construction of the turbines will result in a total impact of 0.05 acre to wetlands; all of which are temporary impacts. Of the 0.05 acre of impacts, 0.01 acre contains temporary impacts to federally jurisdictional wetlands and 0.04 acre contains temporary impacts to isolated wetlands. No NYSDEC wetlands or regulated adjacent buffers will be impacted by construction of turbines. Each turbine will require a staging area of 200 by 200 feet to stage turbine parts and position construction equipment around the turbine site. Sufficient space is needed around the turbine base to maneuver equipment and avoid safety hazards for construction workers. The staging areas were sited around the turbines to avoid impacts to wetlands as much as possible, while still providing a safe and functional work space to erect the towers. Turbines were sited considering this construction condition; however, required setbacks and minimization of impacts to agricultural uses and forestlands constrained the location of four turbine staging areas. Unavoidable temporary impacts will occur to isolated wetlands within the turbine staging areas for Turbines T7, T21 and T89. The temporary staging area associated with Turbine T42 will result in impacts to an emergent wetland located in a depression area within an active agricultural field that is repeatedly subjected to disturbance associated with farming activities. Turbine T42 was sited within an active agricultural field to avoid impacts to wetland and upland communities in the adjacent forest.

Within the temporary turbine staging areas, vegetation will be cleared, and, if necessary, it will be graded to be nearly level. The site contours of the turbine staging areas have been designed to utilize the existing base contours rather than importing significant fill volumes. After construction, the contours within wetland areas will be restored to the extent possible while maintaining the integrity of the tur-

bine base. The staging areas will also be revegetated. Construction of the turbines will not result in impacts to forested wetlands.

Access Roads

Construction of access roads will result in impacts to 0.31 acre of wetlands; of which, 0.22 acre contains temporary impacts and will be restored to preconstruction contours. Of the 0.22 acre of wetlands that will be temporarily impacted by construction of access roads, 0.13 acre has been determined to be federally jurisdictional during field surveys and the remaining 0.09 acre of impacts will be to isolated wetlands (Note: this is a preliminary determination subject to final verification by the USACE). The temporary access road construction right of way (ROW) will not impact state-regulated wetlands. However, construction of Access Road 3 (serving Cluster 3) will result in impacts to 0.14 acre of the adjacent buffer associated with NYSDEC Wetland BL-6; of which 0.10 acre will be restored to pre-construction contours and, therefore, considered a temporary impact. Impacts to the 100-foot buffer of NYSDEC Wetland BL-6 will occur on the opposite side of Maxwell Road from the wetland and may, therefore, be insignificant.

Construction of access roads will result in impacts to 0.03 acre of mixed emergent/shrub-scrub/forested wetlands that contain a forest component. These areas will be maintained to prevent reestablishment of trees.

Construction impacts within wetlands will include the clearing of vegetation and grading within a 40-foot construction road ROW. The actual temporary access road width for construction will be 30 feet. While a 60-foot corridor will be utilized in upland areas to provide safe egress and ingress of construction vehicles to the turbine sites, the narrower 40-foot disturbance corridor will be used in wetland areas to minimize impacts. Culverts and fords will be installed during road construction in appropriate areas to maintain wetland hydrology while the roads are in place. Typical design drawings of these methods are included in Appendix B. Noble will require a permanent access road of 12 feet in width to each turbine. In wetlands and other low-lying areas, a 2-foot shoulder on either side of the road may be required. After construction is completed the additional road width required for construction will be removed.

Collection Lines

Construction of both overhead and underground collection systems will result in impacts to 0.60 acre of wetlands; all of which are temporary impacts and will be restored to pre-construction contours. Of the 0.60 acre of temporary impacts, 0.46 acre will be to federally jurisdictional wetlands and the remaining 0.14 acre of impact will be to isolated wetlands. Construction of the collection system will result in temporary impacts to 0.19 acre of wetland that is under the jurisdiction of NYSDEC (note: this is included in the 0.46 acre reported as federally jurisdictional) and 2.11 acres of upland buffer. Additionally, installation of overhead collection lines will result in negligible impacts to wetlands under federal and state jurisdiction, due to the placement of one to three poles within a wetland along Wolcott Road. While the final pole layout has not been designed at this time,

2. Environmental Setting and Impacts

Table 2.8-1 Impacts to Federally Jurisdictional Wetlands, Noble Wethersfield Windpark

Facility	Acreage of Wetlands Impacted during Construction (Total Impacts)	Acreage of Wetlands to be Restored to Pre-Construction Contours Following Construction (Temporary Impacts)		Acreage of Wetlands Impacted by Permanent Fill For Project Facilities (Permanent Impacts)	
		Wetlands under Federal Jurisdiction ¹ (acres)	Wetlands with No Apparent Connection to Waters of the United States ² (acres)	Wetlands under Federal Jurisdiction ¹ (acres)	Wetlands with No Apparent Connection to Waters of the United States ² (acres)
Turbine Staging Area	0.054	0.012	0.042	0	0
Road/Collection	0.373	0.171	0.091	0.065	0.046
Underground Collection ³	0.688	0.547	0.141	0	0
Overhead Collection	0.00	0.00	0.00	0.00	0.00
Subtotal Acreage of Wetlands Impacted by Jurisdiction	1.115	0.730	0.274	0.065	0.046
Subtotal Acreage of Impacts during Operation (permanent impacts) and Impacted Areas to be Restored (temporary impacts)	1.115	1.004		0.111	

¹ Includes wetlands for which a surface water connection to waters of the United States was identified during field surveys. It is likely that these wetlands will be determined to be federally jurisdictional. The jurisdictional determination will be made by the USACE.

² Includes wetlands for which no apparent surface water connection to waters of the United States was identified during field surveys. These wetlands may not be federally jurisdictional. The jurisdictional determination will be made by the USACE.

³ There will be 0.0004 acres of wetland impact associated with the placement of poles in wetland W842.

Table 2.8-2 Impacts to Wetland Under State Jurisdiction, Noble Wethersfield Windpark

Facility	Acreage of State Jurisdictional Wetlands Impacted during Construction (Total Impacts)	Acreage of Wetlands under NYSDEC Jurisdiction ^{1, 2} to be Restored to pre-construction Contours Following Construction (Temporary Impacts) (acres)	Acreage of Wetlands under NYSDEC Jurisdiction ¹ Impacted By Project Facilities (Permanent Impacts) (acres)	Acreage of Adjacent Area to be Impacted During Construction (Total Impacts)	Acreage of Adjacent Buffer under NYSDEC Jurisdiction ¹ to be Restored Following Construction (Temporary Impacts) (acres)	Acreage of Adjacent Buffer under NYSDEC Jurisdiction ¹ Impacted During Operation (Permanent Impacts) (acres)
Turbine Staging Area	0.00	0	0	0.00	0	0.00
Road/Collection	0.00	0	0	0.14	0.10	0.04
Underground Collection ³	0.281	0.281	0	2.345	2.345	0.00
Overhead Collection	0.00	0	0	0.000	0.000	0.00
Acreage of Impacts during Operation (permanent impacts) and Impacted Areas to be Restored (temporary impacts)	0.281	0.281	0	2.345	2.345	0.04

¹ Includes delineated wetlands that overlap/correspond with NYSDEC mapped freshwater wetlands that are assumed to be under the jurisdiction of the state. The jurisdictional determination will be made by NYSDEC.

² All delineated wetlands included have an obvious surface water connection to waters of the United States and as such, are also under federal jurisdiction.

³ There will be 0.0004 acres of impacts to Wetland W842 associated with the placement of a pole.

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2.16 Sound: Impacts and Mitigation

An evaluation of the potential operational noise impacts from the Project on residents in the vicinity of the Project Area began with the background sound level survey described in Section 2.15, Sound: Environmental Setting. The evaluation was completed using a computer modeling analysis of turbine sound levels based on the design of the Project. The model was used to predict the sound level contours associated with the Project over the Project Area, to determine if any residents will be able to hear the turbines above the pre-existing background levels and, if so, what adverse impacts might result. The results of this assessment are presented in detail in Appendix H and are summarized below.

An evaluation of construction impacts was performed using typical noise levels for construction equipment as reported in the *Power Plant Construction Noise Guide* (Empire State Electric Energy Research Corp. 1977).

2.16.1 Construction Impacts

Noise from construction activities associated with the Project is likely to temporarily constitute a moderate unavoidable impact at some, if not most, of the homes in the Project Area. Because construction activities will constantly move from place to place around the site, it is unlikely that there will be significant impacts at any single receptor for an extended period of time. The sound levels expected for each phase of construction are shown in Table 2.16-1 and are compared to local regulatory noise limits which impose a threshold of 50 A-weighted decibel level (dBA) at the nearest receptor.

As Table 2.16-1 indicates, depending on the particular activity, sounds from construction equipment are likely to be significant at distances of up to 5,500 feet. This indicates that construction noise will be noticeable during certain periods of construction at many homes within the Project Area. At a maximum, however, sound levels ranging from 52 to 59 dBA may occur at an individual residence on a temporary basis over a period of several weeks. Such levels would not generally be considered acceptable on a permanent basis, but as a temporary, daytime occurrence, construction noise of this magnitude should not pose a significant inconvenience. During much of the construction phase, the generated noise should be similar to the agricultural activities that occur in the area. Furthermore, the estimated construction noise at residential receptors will be significantly lower than an average Leq of 80 dBA in accordance with Section VI of *NYS DOT Environmental Procedures Manual, Environmental Analysis Bureau, August 1998*.

Noise from the very small amount of daily vehicular traffic to and from the Project Site during construction is expected to be negligible in magnitude relative to normal traffic levels (even given the rural nature of the roads in the Project Area). It will also be temporary in duration at any given location.

2.16.2 Project Facility Impacts

2.16.2.1 Noise Model Results and Impact Assessment

No significant or sustained adverse impact is expected at any home or other receptor in the Project vicinity. This subsection describes the turbine noise level, as-

- 85 hub assembly delivery vehicles;
- 29 controller cabinet delivery vehicles;
- 29 transformer delivery vehicles; and
- Crane mobilization and relocation.

Table 2.22-1 shows the estimated distribution of construction traffic throughout the duration of the Project. Construction vehicle traffic will be limited to the hours of 7:00 a.m. to 7:00 p.m. and will typically be scheduled between 7:00 a.m. and 4:00 p.m. except along school bus routes from 7:00 to 8:30 a.m. and 2:30 to 4:00 p.m. During weeks of peak construction activity, vehicles are expected to total 122 per day within the 8-hour period. Using the most conservative assumption possible (that all traffic will come in through New York State [NYS] Route 39), the peak Project transportation period (weeks 17 and 18) will result in about 19% increase in hourly daytime traffic on NYS Route 39.

Delivery of Project components, principally blades, tower sections, nacelles, and transformers, is expected via NYS Routes 39, 19, and 78. The Traffic and Transportation Plan provided in Appendix K contains a description of these primary travel routes for the construction of the Project; vehicle and road requirements; known limiting road conditions; and the weights and heights of loaded vehicles. Appendix K also contains a preliminary haul route map and figures depicting the transportation of major Project components. While trucks pass through or make turns at road intersections, temporary stoppage of traffic may be needed to allow the truck to safely complete the turn by utilizing the complete road width.

Oversize construction vehicles could cause minor delays, but these are unlikely to be significant, given the relatively low traffic volume. Impacts to the local traffic and transportation during construction may include:

- Temporary traffic delays at intersections and on small roads (behind slow-moving or parked trucks);
- Damage to road surface may occur, especially during rainy periods in the spring and fall; and
- Creation of noise and dust from the passage of large construction vehicles.

2.22.2 Project Facility Impacts

As previously stated, existing road traffic is comfortably below average and existing traffic conditions are light (see Table 2.21-1). A limited number of light trucks will occasionally access the Project Site for service and maintenance; therefore, the Project is not expected to have permanent impacts on local traffic and transportation.

2.26 Socioeconomics: Impacts and Mitigation

Development of the Project will have a positive impact on the local economy through the creation of new temporary and permanent jobs, payment of payments in lieu of taxes (PILOT) and Host Community revenues by the Project sponsor to local taxing entities, payment of easement revenues to local landowners, and increased economic activity. The addition of the Project to the New York Power Pool could result in savings to New York State (NYS) customers amounting to approximately \$217 million over the next 20 years through the displacement of older, inefficient plants and consequent reduction in wholesale energy costs.

2.26.1 Construction Impacts**Population and Housing**

The Project may result in short-term impacts to local lodging. It is estimated that during the 8-month construction period there will be a temporary influx of construction workers to the area surrounding the Project Site. The number of construction workers for the Project is expected to peak at approximately 242. Local contractors and labor will be utilized to the extent practicable to maximize the benefit to the community, and these individuals will commute to the Project Site. This will mitigate the temporary increase in local population and the need for additional local housing. Construction workers coming from outside the Project Area for the construction phase of the Project will likely reside in motels/hotels in larger population centers in the vicinity of the Project Area, including East Aurora, Springville, Ellicottville, and Buffalo. Noble will communicate with local merchants about needs for lodging and other services during construction; however, given the hotel capacity in the nearby municipalities, it is not expected that the demand for temporary lodging from out-of-town laborers will have a negative impact on local lodging capacity.

Local Economy

Construction of the Project will create a short term increase in local economic activity, including purchases of thousands of room-nights at local motels/hotels, automotive fuel, meals, and other items. The Project will spend a total of approximately \$34.6 million countywide during construction. Total economic benefits during construction are estimated at \$54.9 million, including payrolls, supplies, materials, hotel stays, meals, and economic multiplier effects. The Project will extensively utilize and support providers of local services, suppliers, and area manufacturers during construction.

Employment

Construction of the Project will result in the direct employment of up to 242 electrical workers, crane operators, equipment operators, carpenters, and other construction workers (with a total estimated payroll and benefits of \$10.1 million), and create 262 additional direct, indirect, and induced jobs countywide (with a total estimated payroll and benefits of \$7.2 million).

2. Environmental Setting and Impacts

tion in order to properly prepare for any periods with a high number of out-of-town workers.

With respect to the local economy, Noble will utilize local services, supplies, and manufacturers to the greatest extent possible during Project construction and operations in order to pass on the maximum financial benefit to the community as possible.

PILOT and Host Community payments will be provided to the local municipalities and school districts in order to mitigate financial burdens placed upon them as a result of the Project.

2.29 Health and Safety

This section describes existing emergency services in the vicinity of the Project Area, health and safety planning for the Project, and other safety considerations. A draft Health and Safety Plan (HSP) and the Wyoming County Comprehensive Emergency Management Plan are provided in Appendix P.

2.29.1 Emergency Services

Wyoming County Emergency Services coordinates the fire, emergency medical, and transportation services in cooperation with local volunteer fire departments. Access to Emergency Services is available 24 hours per day, 7 days per week through the Wyoming County 9-1-1 Center. Wyoming County Emergency Services has a contract with Monroe Ambulance for paramedic level service. Wyoming County Hospital is located approximately 15 miles from the Project Site in the Town of Warsaw. Fire response for the Project Area is supported by the Gainesville, Bliss, and North Java Volunteer Fire Departments.

In general, emergency response capabilities are adequate and can serve the Project Area during construction and operation. Site-specific risks will be assessed prior to the start of construction pursuant to applicable laws and regulations and an Emergency Response Plan (ERP) incorporating the Wyoming County Comprehensive Emergency Plan will be developed as new risks are identified.

2.29.2 Health and Safety Planning

The development and implementation of plans for the safe design, construction, and operation of all Project facilities is integral to Project operations. The implementation of the HSP is an ongoing process, from the first design effort through procurement to construction and operations. A draft HSP has been developed and includes the four phases described below:

Design Phase

During the design phase (ongoing) the elements of the Project are being defined and specific details are being confirmed. The detailed requirements for each element will be depicted in specifications and drawings, including features required for safe operations.

Procurement Phase

All equipment and materials will be purchased in accordance with documents prepared during the design phase. A check will be performed to ensure compliance with health and safety requirements. Any enhancements recommended by the suppliers will be evaluated and added as appropriate. All contractors will be evaluated based on their safety record histories, commonly referred to by New York State (NYS) insurance carriers as an Experience Modification Rate (EMR). This EMR rate will be evaluated using the most recent 3 years of experience. An EMR of 1.0 or greater usually indicates a substandard record which may result in the contractor being excluded from the Project.

2. Environmental Setting and Impacts

Determining the actual impact of the Noble facilities on such properties is difficult for a number of reasons. First, it is possible that modern intrusions may have already compromised some historical settings. Telephone poles, electrical distribution lines, water towers, wind turbines, cellular/ personal communication system (PCS), and/or radio/television towers and other vertical, modern visual intrusions are located throughout the Project Area. In addition, because the zone of visual influence (ZVI) is topography based and does not include vegetative cover, it likely overestimates the number of visible turbines and the area from which they can be seen. The actual impacts to these resources will vary with the surrounding topography, distance from the turbines and electrical lines, existing landscaping and vegetation, and surrounding land uses.

Nevertheless, the data presented suggest that turbines are likely to be visible from many of these properties. All 85 turbines may be visible from nine individual properties located in the Towns of Wethersfield, Gainesville, and Orangeville. In addition, the Federal Aviation Administration-required lighting on some turbines will also be visible from many locations. Thus, the Project will likely change the visible landscape of the region and create a distinct visual aspect. The most significant visual impacts will be on open farming land (rural agricultural landscapes), historic properties on ridges, cemeteries, and historic properties on New York State (NYS) Routes 39 and 362. While there may be some screening afforded by mature trees, shrubbery, and other plantings during the growing season, the prominent features of the turbines will be visible or partly visible from NR Eligible properties of concern during the periods of dormancy. (Section 2.14, Visual Resources: Impacts and Mitigation, and Appendix G provide a more detailed discussion of visual impacts.)

Archaeological Resources

No prehistoric or historic archaeological sites or prehistoric artifacts were found during this investigation. The few historic artifacts found were scattered in parts of the APE were isolated finds within plow-zone contexts and lacked both integrity and historical context. As such, operation and maintenance of the Project will not impact any archaeological resources.

2.31.3 Mitigation

Architectural Resources

Noble is required to consult with the NYSHPO pursuant to Section 106 of the National Historic Preservation Act (NHPA) and Article 14 of the New York Parks, Recreation, and Historic Preservation Law. Article 8 of the New York State Environmental Conservation Law (ECL) and 6 NYCRR Part 617 also requires the evaluation of impacts to cultural resources. As a result of this consultation, Noble may be required to provide additional mitigation than what is presented in the DEIS, and provide “offsets” in accordance with the NYSDEC Visual Impact Policy in recognition of the Unavoidable Adverse Visual Impacts from the Project.

Appendix F, Appendix C, Acoustical Monitoring Study, Spring 2006

Appendix A Table 1. Summary of species and weather during each survey night at the high detector (25 m) - Spring 2006 (Centerville)																	
Night of	Detector Nights	BIG BROWN GUILD				RBEP		MYPSP				UNKN	Total	Wind Speed (m/s)	Wind Direction (from)	Temp (C)	
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brown	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis spp.</i>	northern myotis	small-footed myotis	unknown					
4/6/2006	1												0	6	135	2	
4/7/2006	1												0	3	315	1	
4/8/2006	1												0	1	135	-3	
4/9/2006	1												0	2	135	-1	
4/10/2006	1												0	2	135	6	
4/11/2006	1												0	3	135	9	
4/12/2006	1								1				1	4	variable	10	
4/13/2006	1								1				1	2	180	9	
4/14/2006	1												0	8	variable	13	
4/15/2006	1												0	8	295	9	
4/16/2006	1						1					2	3	4	170	7	
4/17/2006	1												0	6	44	7	
4/18/2006	1						1						1	5	29	11	
4/19/2006	1								1			1	2	5	162	13	
4/20/2006	1						1	2	1				4	5	153	15	
4/21/2006	1											2	2	8	130	17	
4/22/2006	1							1	1				2	6	150	7	
4/23/2006	1								1			2	3	6	239	8	
4/24/2006	1								5			1	6	7	260	6	
4/25/2006	1												0	6	305	0	
4/26/2006	1											3	3	7	250	13	
4/27/2006	1												0	5	240	6	
4/28/2006	1								2			1	3	5	53	5	
4/29/2006	1							5				4	9	6	75	10	
4/30/2006	1	1			3			1	4			6	15	6	97	15	
5/1/2006	1							4				2	6	5	80	15	
5/2/2006	1											2	2	5	75	12	
5/3/2006	1							1				1	2	7	289	14	
5/4/2006	1	2						1				3	6	6	283	15	
5/5/2006	1							1				1	2	5	252	12	
5/6/2006	1												0	6	282	4	
5/7/2006	1						1					1	2	4	123	12	
5/8/2006	1							1	1			1	3	5	150	15	
5/9/2006	1							1				2	3	4	91	15	
5/10/2006	1				2		1	2				3	8	5	100	18	
5/11/2006	1												0	5	166	11	
5/12/2006	1												0	4	247	12	
5/13/2006	1											2	2	4	102	12	
5/14/2006	1				1								1	6	92	13	
5/15/2006	1												0	4	128	8	
5/16/2006	1												0	5	237	9	
5/17/2006	1											1	1	7	251	12	
5/18/2006	1												0	6	252	7	
5/19/2006	1												0	8	266	8	
5/20/2006	1												0	10	254	7	
5/21/2006	1												0	11	279	3	
5/22/2006	1												0	7	287	3	
5/23/2006	1												0	7	276	8	
5/24/2006	1	1							8			6	15	6	262	15	
5/25/2006	1								1			2	3	6	196	17	
5/26/2006	1												0	4	281	15	
5/27/2006	1		1										1	4	273	16	
5/28/2006	1			2	2		2						1	7	4	267	22
5/29/2006	1			2	2								4	5	281	24	
5/30/2006	1		2				1					5	8	4	255	26	
5/31/2006	1		1						1				2	5	276	27	
6/1/2006	1												0	3	160	19	
6/2/2006	1		1										1	3	315	18	
6/3/2006	1												0	2	315	15	
6/4/2006	1												0	4	315	13	
6/5/2006	1		2				1		1			1	5	2	135	12	
6/6/2006	1												0	3	135	12	
6/7/2006	1												0	2	135	13	
By Species		4	7	4	10	0	9	20	29	0	0	56	139	* Weather data from these nights were obtained online at www.weatherunderground.com			
By Guild		25				9		49				56					
		BIG BROWN GUILD				RBEP		MYPSP				UNKN	Total				

Appendix F, Appendix C, Acoustical Monitoring Study, Spring 2006

Appendix A Table 2. Summary of species and weather during each survey night at the low detector (10 m) - Spring 2006 (Centerville)																
Night of	Detector Nights	BIG BROWN GUILD				RBEP		MYSP				UNKN	Total	Wind Speed	Wind Direction	Temperature
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brown	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis spp.</i>	northern myotis	small-footed myotis	unknown		(m/s)	(degrees)	(C)
4/6/2006	1												0	6	135	2
4/7/2006	1												0	3	315	1
4/8/2006	1												0	1	135	-3
4/9/2006	1												0	2	135	-1
4/10/2006	1						1						1	2	135	6
4/11/2006	1												0	3	135	9
4/12/2006	1												0	4	variable	10
4/13/2006	1												0	2	180	9
4/14/2006	1												0	8	variable	13
4/15/2006	1												0	8	295	9
4/16/2006	1							1					1	4	170	7
4/17/2006	1												0	6	44	7
4/18/2006	1											1	1	5	29	11
4/19/2006	1											1	1	5	162	13
4/20/2006	1							1				2	3	5	153	15
4/21/2006	1											2	2	8	130	17
4/22/2006	1												0	6	150	7
4/23/2006	1											1	1	6	239	8
4/24/2006	1												0	7	260	6
4/25/2006	1												0	6	305	0
4/26/2006	1											2	2	7	250	13
4/27/2006	1												0	5	240	6
4/28/2006	1												0	5	53	5
4/29/2006	1							1	1			8	10	6	75	10
4/30/2006	1				2			1				6	9	6	97	15
5/1/2006	1							1				2	3	5	80	15
5/2/2006	1							1					1	5	75	12
5/3/2006	1			1									1	7	289	14
5/4/2006	1			1									1	6	283	15
5/5/2006	1												0	5	252	12
5/6/2006	1												0	6	282	4
5/7/2006	1											3	3	4	123	12
5/8/2006	1											1	1	5	150	15
5/9/2006	1								1			1	2	4	91	15
5/10/2006	1	1					1		1			2	5	5	100	18
5/11/2006	1												0	5	166	11
5/12/2006	1	1				1							2	4	247	12
5/13/2006	1								1				1	4	102	12
5/14/2006	1											1	1	6	92	13
5/15/2006	1												0	4	128	8
5/16/2006	1							1					1	5	237	9
5/17/2006	1							1				2	3	7	251	12
5/18/2006	1												0	6	252	7
5/19/2006	1												0	8	266	8
5/20/2006	1												0	10	254	7
5/21/2006	1												0	11	279	3
5/22/2006	1												0	7	287	3
5/23/2006	1												0	7	276	8
5/24/2006	1	1						7	6			6	20	6	262	15
5/25/2006	1		1					1	2			2	6	6	196	17
5/26/2006	1												0	4	281	15
5/27/2006	1						1		1			1	3	4	273	16
5/28/2006	1	1	6			1	2	1	2			2	15	4	267	22
5/29/2006	1		5						1			4	10	5	281	24
5/30/2006	1		2				5	1				1	9	4	255	26
5/31/2006	1						1	2	2			1	6	5	276	27
6/1/2006	1								1				1	3	160	19
6/2/2006	1						1						1	3	315	18
6/3/2006	1												0	2	315	15
6/4/2006	1												0	4	315	13
6/5/2006	1						1	1				2	4	2	135	12
6/6/2006	1												0	3	135	12
6/7/2006	1												0	2	135	13
By Species		4	14	2	2	2	13	21	19	0	0	54	131	* Weather data from these nights were obtained online at www.weatherunderground.com		
By Guild		22				15		40				54				
		BIG BROWN GUILD				RBEP		MYSP				UNKN	Total			

Appendix F, Appendix C, Acoustical Monitoring Study, Spring 2006

Appendix B Table 1. Summary of species and weather during each survey night at the Wethersfield high detector (30 m) - Spring 2006

Night of	Detector Nights	BIG BROWN GUILD				RBFP		MYPSP			UNKN	Total	Wind Speed	Wind Direction	Temperature	
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brown	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis spp.</i>	northern myotis	small-footed myotis		unknown	(m/s)	(degrees)	(°C)
4/6/2006*	1											0	4	135	2	
4/7/2006*	1											0	3	315	1	
4/8/2006*	1											0	1	135	-4	
4/9/2006*	1											0	2	135	-2	
4/10/2006*	1											0	2	135	-1	
4/11/2006*	1											0	3	135	8	
4/12/2006*	1											0	4	180	13	
4/13/2006*	1										1	1	2	180	9	
4/14/2006*	1											0	5	Variable	14	
4/15/2006	1											0	7	301	10	
4/16/2006	1											0	5	89	4	
4/17/2006	1											0	6	41	8	
4/18/2006	1										1	1	5	43	11	
4/19/2006	1											0	5	160	14	
4/20/2006	1						1	2	1			2	6	5	164	16
4/21/2006	1											0	7	162	18	
4/22/2006	1											0	6	181	8	
4/23/2006	1											0	6	252	9	
4/24/2006	1											0	7	253	6	
4/25/2006	1										1	1	5	326	1	
4/26/2006	1											0	8	265	9	
4/27/2006	1											0	5	90	7	
4/28/2006	1										1	1	5	77	7	
4/29/2006	1										1	1	6	93	12	
4/30/2006	1										5	5	6	107	16	
5/1/2006	1											0	6	94	16	
5/2/2006	1										1	1	6	90	13	
5/3/2006	1				2		1					3	6	302	16	
5/4/2006	1				1							1	4	122	9	
5/5/2006	1			1							1	2	4	252	13	
5/6/2006	1											0	3	281	1	
5/7/2006	1			1								1	4	141	14	
5/8/2006	1										3	3	5	161	17	
5/9/2006	1										1	1	5	103	17	
5/10/2006	1											0	5	120	20	
5/11/2006	1											0	3	199	10	
5/12/2006	1											0	4	258	13	
5/13/2006	1											0	4	129	13	
5/14/2006	1											0	6	108	14	
5/15/2006	1		2									2	3	127	10	
5/16/2006	1											0	4	256	10	
5/17/2006	1										1	1	7	271	13	
5/18/2006	1											0	6	263	8	
5/19/2006	1											0	8	285	9	
5/20/2006	1											0	8	231	7	
5/21/2006	1											0	11	298	4	
5/22/2006	1											0	6	303	2	
5/23/2006	1										1	1	5	260	5	
5/24/2006	1										4	4	6	274	16	
5/25/2006	1							2	1		1	4	6	222	18	
5/26/2006	1											0	4	306	16	
5/27/2006	1											0	4	275	17	
5/28/2006	1											0	3	289	23	
5/29/2006	1											0	5	298	26	
5/30/2006	1											0	3	247	26	
5/31/2006	1	1			1						1	3	4	260	28	
6/1/2006*	1		1								2	3	0.5	360	18	
6/2/2006*	1			1	1				1			3	3	315	18	
6/3/2006*	1											0	4	315	13	
6/4/2006*	1											0	1	135	13	
6/5/2006*	1				1							1	2	135	13	
6/6/2006*	1		2		2			2			3	9	2	135	15	
6/7/2006*	1										1	1	Calm	Calm	16	
By Species		1	5	3	8	0	2	6	3	0	0	32	* Weather data from these nights were obtained online at www.weatherunderground.com from an airport in Dansville, NY approximately 20 miles west of the project area			
By Guild		17				2		9			32					
		BIG BROWN GUILD				RBFP		MYPSP			UNKN	Total				

Appendix F, Appendix C, Acoustical Monitoring Study, Spring 2006

Appendix B Table 2. summary of species and weather during each survey night at the Wethersfield low detector (15 m) - Spring 2006

Night of	Detector Nights	BIG BROWN GUILD				RBF		MYSP			UNKN	Total	Wind Speed	Wind Direction	Temperature	
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brown	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis spp.</i>	northern myotis	small-footed myotis		unknown	(m/s)	(degrees)	(°C)
4/6/2006*	1											0	4	135	2	
4/7/2006*	1											0	3	315	1	
4/8/2006*	1											0	1	135	-4	
4/9/2006*	1											0	2	135	-2	
4/10/2006*	1											0	2	135	-1	
4/11/2006*	1	1		1								2	3	135	8	
4/12/2006*	1											0	4	180	13	
4/13/2006*	1										1	1	2	180	9	
4/14/2006*	1											0	5	Variable	14	
4/15/2006	1											0	7	301	10	
4/16/2006	1										1	1	5	89	4	
4/17/2006	1											0	6	41	8	
4/18/2006	1											0	5	43	11	
4/19/2006	1							2	1			3	5	160	14	
4/20/2006	1							3				2	5	164	16	
4/21/2006	1											0	7	162	18	
4/22/2006	1											0	6	181	8	
4/23/2006	1											0	6	252	9	
4/24/2006	1										1	1	7	253	6	
4/25/2006	1										1	1	5	326	1	
4/26/2006	1								2			1	3	265	9	
4/27/2006	1											0	5	90	7	
4/28/2006	1								1			1	5	77	7	
4/29/2006	1						1					1	6	93	12	
4/30/2006	1				2		1	3	2			6	14	107	16	
5/1/2006	1				2							2	6	94	16	
5/2/2006	1	1			1		1					1	4	90	13	
5/3/2006	1				2		1					2	5	302	16	
5/4/2006	1				2							2	4	122	9	
5/5/2006	1				1			1	1			1	4	252	13	
5/6/2006	1											0	3	281	1	
5/7/2006	1			1				1				2	4	141	14	
5/8/2006	1			1				1	1			1	4	161	17	
5/9/2006	1											0	5	103	17	
5/10/2006	1				2							2	5	120	20	
5/11/2006	1											0	3	199	10	
5/12/2006	1											0	4	258	13	
5/13/2006	1				1							1	2	129	13	
5/14/2006	1								1			1	6	108	14	
5/15/2006	1											0	3	127	10	
5/16/2006	1											0	4	256	10	
5/17/2006	1											2	2	271	13	
5/18/2006	1											0	6	263	8	
5/19/2006	1											0	8	285	9	
5/20/2006	1											0	8	231	7	
5/21/2006	1											0	11	298	4	
5/22/2006	1											0	6	303	2	
5/23/2006	1											0	5	260	5	
5/24/2006	1							2	9			1	12	274	16	
5/25/2006	1							1	3			6	10	222	18	
5/26/2006	1											1	1	306	16	
5/27/2006	1											1	1	275	17	
5/28/2006	1							2	4			2	8	289	23	
5/29/2006	1							1	2			1	4	298	26	
5/30/2006	1	1	1		1			1				2	6	247	26	
5/31/2006	1		1		1							2	4	260	28	
6/1/2006*	1				1				1			1	3	0.5	360	18
6/2/2006*	1				1							1	3	315	18	
6/3/2006*	1											0	4	315	13	
6/4/2006*	1				1							1	1	135	13	
6/5/2006*	1								3			2	5	135	13	
6/6/2006*	1		1	1	4				3			2	11	2	135	15
6/7/2006*	1											0	Calm	Calm	16	
By Species		3	3	4	22	0	4	18	34	0	0	44				
By Guild		32				4		52			44	132	* Weather data from these nights were obtained online at www.weatherunderground.com from an airport in Dansville, NY approximately 20 miles west of the project area			
		BIG BROWN GUILD				RBF		MYSP			UNKN					

Appendix F, Appendix D, Sec. 3.1

Table 1. Summary of bat detector field survey effort and results- Centerville, NY Fall 2006						
Location	Dates	# Nights	# Detector- Nights*	# Recorded sequences	Detection Rate **	Maximum # calls recorded ***
High in MET tower	July 25 to October 9	41	41	2	0.05	1
Low in MET tower	July 25 to October 9	48	48	3	0.06	2
Overall Results			89	5	0.1	--
* Detector-night is a sampling unit during which a single detector is deployed overnight. On nights when two detectors are deployed, the sampling effort equals two detector-nights, etc.						
** Number of bat passes recorded per detector-night.						
*** Maximum number of bat passes recorded from any single detector for a 12-hour sampling period.						

Appendix F, Appendix D, Acoustical Monitoring Study, Fall 2006

Appendix A Table 1. Summary of species and weather during each survey night at the Centerville high detector (30 m) – Fall 2006																	
Night of	Detector Nights	BIG BROWN GUILD				RBEP		MYSP			UNKN	Total	Mean Nightly Weather (7pm - 7am)				
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brown	eastern pipistrelle	eastern red bat	little brown bat	Myotis spp.	northern myotis	small-footed myotis		unknown	Wind Speed (m/s)	Wind Direction (degrees from true north)	Temperature (c)	
25-Jul	0											n/o	3.6	180.0	23.4		
26-Jul	0											n/o	5.1	205.0	25.0		
27-Jul	0											n/o	4.4	205.0	23.3		
28-Jul	0											n/o	4.9	205.0	22.9		
29-Jul	0											n/o	3.4	270.0	22.9		
30-Jul	0											n/o	3.0	205.0	23.8		
31-Jul	0											n/o	2.2	135.0	25.5		
1-Aug	0											n/o	0.4	256.3	23.3		
2-Aug	0											n/o	0.4	251.0	23.4		
3-Aug	0											n/o	0.4	320.5	17.6		
4-Aug	0											n/o	0.4	290.7	14.7		
5-Aug	0											n/o	0.4	123.5	15.3		
6-Aug	0											n/o	0.4	239.0	20.0		
7-Aug	0											n/o	0.4	310.5	14.9		
8-Aug	0											n/o	0.4	98.5	13.7		
9-Aug	0											n/o	0.4	275.0	15.9		
10-Aug	0											n/o	5.1	69.0	13.8		
11-Aug	1											0	1.9	122.8	11.0		
12-Aug	1											0	2.6	191.1	12.1		
13-Aug	1											0	5.9	246.4	13.9		
14-Aug	1											0	5.6	275.2	16.2		
15-Aug	1											0	3.9	272.7	12.9		
16-Aug	1											0	3.8	99.1	14.7		
17-Aug	1											0	5.2	155.6	18.1		
18-Aug	1											0	5.1	207.5	19.8		
19-Aug	1											0	6.5	252.4	18.0		
20-Aug	1				1							1	4.8	309.1	13.2		
21-Aug	1											0	5.6	253.9	12.3		
22-Aug	1											0	3.3	289.9	14.5		
23-Aug	1											0	3.5	177.0	14.5		
24-Aug	1				1							1	3.5	146.7	14.2		
25-Aug	1											0	5.1	64.9	14.9		
26-Aug	1											0	5.8	160.4	18.0		
27-Aug	1											0	2.2	230.6	17.7		
28-Aug	1											0	6.2	60.0	15.1		
29-Aug	1											0	4.4	48.6	14.2		
30-Aug	1											0	7.2	67.0	9.2		
31-Aug	1											0	6.7	75.5	10.6		
1-Sep	1											0	6.6	75.6	12.4		
2-Sep	1											0	5.6	107.7	9.9		
3-Sep	1											0	7.1	265.0	10.8		
4-Sep	1											0	1.4	280.7	12.2		
5-Sep	1											0	4.5	265.7	11.5		
6-Sep	1											0	3.0	256.0	11.9		
7-Sep	1											0	6.0	231.5	13.9		
8-Sep	1											0	6.7	234.5	14.9		
9-Sep	1											0	4.2	63.9	10.3		
10-Sep	1											0	5.3	77.2	6.5		
11-Sep	1											0	5.5	132.3	10.4		
12-Sep	1											0	6.8	170.1	11.1		
13-Sep	1											0	4.6	180.0	12.8		
14-Sep	1											0	2.3	287.7	13.1		
15-Sep	1											0	3.1	58.7	13.4		
16-Sep	1											0	3.4	175.8	13.3		
17-Sep	1											0	8.0	215.8	14.9		
18-Sep	1											0	6.0	223.3	16.1		
19-Sep	1											0	6.2	257.0	8.7		
20-Sep	1											0	4.7	257.6	4.5		
21-Sep	0											n/o	4.2	193.0	6.0		
22-Sep	0											n/o	6.5	177.3	12.5		
23-Sep	0											n/o	8.6	219.2	16.8		
24-Sep	0											n/o	6.2	291.6	9.0		
25-Sep	0											n/o	6.9	267.3	8.6		
26-Sep	0											n/o	6.2	197.4	9.1		
27-Sep	0											n/o	6.0	193.5	12.2		
28-Sep	0											n/o	5.5	303.8	4.7		
29-Sep	0											n/o	6.0	208.1	3.9		
30-Sep	0											n/o	5.5	193.4	7.7		
1-Oct	0											n/o	5.5	277.6	5.2		
2-Oct	0											n/o	8.3	229.3	13.1		
3-Oct	0											n/o	5.8	226.8	11.6		
4-Oct	0											n/o	5.2	99.6	5.5		
5-Oct	0											n/o	4.8	54.7	2.6		
6-Oct	0											n/o	5.2	73.2	3.0		
7-Oct	0											n/o	5.2	174.0	8.6		
8-Oct	0											n/o	6.6	253.5	12.6		
9-Oct	0											n/o	3.4	241.5	9.7		
By Species		0	0	0	2	0	0	0	0	0	0	0	2				
By Guild		2				0		0			0	2					
		BIG BROWN GUILD				RBEP		MYSP			UNKN	Total					

n/o - indicates that detector was not operating on that night

Appendix F, Appendix D, Acoustical Monitoring Study, Fall 2006

Appendix A Table 2. Summary of species and weather during each survey night at the Centerville low detector (15 m) – Fall 2006

Night of	Detector Nights	BIG BROWN GUILD				RBEP		MYSP			UNKN	Total	Mean Nightly Weather (7pm - 7am)				
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brov	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis</i> spp.	northern myotis	small-footed myotis		unknown	Wind Speed (m/s)	Wind Direction (degrees from true north)	Temperature (c)	
25-Jul	0											0	3.6	180.0	23.4		
26-Jul	0											0	5.1	205.0	25.0		
27-Jul	0											0	4.4	205.0	23.3		
28-Jul	0											0	4.9	205.0	22.9		
29-Jul	0											0	3.4	270.0	22.9		
30-Jul	0											0	3.0	205.0	23.8		
31-Jul	0											0	2.2	135.0	25.5		
1-Aug	0											0	0.4	256.3	23.3		
2-Aug	0											0	0.4	251.0	23.4		
3-Aug	0											0	0.4	320.5	17.6		
4-Aug	0											0	0.4	290.7	14.7		
5-Aug	0											0	0.4	123.5	15.3		
6-Aug	0											0	0.4	239.0	20.0		
7-Aug	0											0	0.4	310.5	14.9		
8-Aug	0											0	0.4	98.5	13.7		
9-Aug	0											0	0.4	275.0	15.9		
10-Aug	0											0	5.1	69.0	13.8		
11-Aug	1											0	1.9	122.8	11.0		
12-Aug	1											0	2.6	191.1	12.1		
13-Aug	1											0	5.9	246.4	13.9		
14-Aug	1											0	5.6	275.2	16.2		
15-Aug	1											0	3.9	272.7	12.9		
16-Aug	1											0	3.8	99.1	14.7		
17-Aug	1											0	5.2	155.6	18.1		
18-Aug	1											1	5.1	207.5	19.8		
19-Aug	1											0	6.5	252.4	18.0		
20-Aug	1											0	4.8	309.1	13.2		
21-Aug	1											0	5.6	253.9	12.3		
22-Aug	1											0	3.3	289.9	14.5		
23-Aug	1											0	3.5	177.0	14.5		
24-Aug	1											0	3.5	146.7	14.2		
25-Aug	1											0	5.1	64.9	14.9		
26-Aug	1											0	5.8	160.4	18.0		
27-Aug	1											0	2.2	230.6	17.7		
28-Aug	0											n/o	6.2	60.0	15.1		
29-Aug	0											n/o	4.4	48.6	14.2		
30-Aug	0											n/o	7.2	67.0	9.2		
31-Aug	0											n/o	6.7	75.5	10.6		
1-Sep	0											n/o	6.6	75.6	12.4		
2-Sep	0											n/o	5.6	107.7	9.9		
3-Sep	0											n/o	7.1	265.0	10.8		
4-Sep	0											n/o	1.4	280.7	12.2		
5-Sep	0											n/o	4.5	265.7	11.5		
6-Sep	0											n/o	3.0	256.0	11.9		
7-Sep	0											n/o	6.0	231.5	13.9		
8-Sep	0											n/o	6.7	234.5	14.9		
9-Sep	1											0	4.2	63.9	10.3		
10-Sep	1				2							2	5.3	77.2	6.5		
11-Sep	1											0	5.5	132.3	10.4		
12-Sep	1											0	6.8	170.1	11.1		
13-Sep	1											0	4.6	180.0	12.8		
14-Sep	1											0	2.3	287.7	13.1		
15-Sep	1											0	3.1	58.7	13.4		
16-Sep	1											0	3.4	175.8	13.3		
17-Sep	1											0	8.0	215.8	14.9		
18-Sep	1											0	6.0	223.3	16.1		
19-Sep	1											0	6.2	257.0	8.7		
20-Sep	1											0	4.7	257.6	4.5		
21-Sep	1											0	4.2	193.0	6.0		
22-Sep	1											0	6.5	177.3	12.5		
23-Sep	1											0	8.6	219.2	16.8		
24-Sep	1											0	6.2	291.6	9.0		
25-Sep	1											0	6.9	267.3	8.6		
26-Sep	1											0	6.2	197.4	9.1		
27-Sep	1											0	6.0	193.5	12.2		
28-Sep	1											0	5.5	303.8	4.7		
29-Sep	1											0	6.0	208.1	3.9		
30-Sep	1											0	5.5	193.4	7.7		
1-Oct	1											0	5.5	277.6	5.2		
2-Oct	1											0	8.3	229.3	13.1		
3-Oct	1											0	5.8	226.8	11.6		
4-Oct	1											0	5.2	99.6	5.5		
5-Oct	1											0	4.8	54.7	2.6		
6-Oct	1											0	5.2	73.2	3.0		
7-Oct	1											0	5.2	174.0	8.6		
8-Oct	1											0	6.6	253.5	12.6		
9-Oct	1											0	3.4	241.5	9.7		
By Species		0	0	0	2	0	0	0	0	0	0	1	3				
By Guild		2				0		0			1		3				
		BIG BROWN GUILD				RBEP		MYSP			UNKN		Total				

n/o - indicates that detector was not operating on that night

Appendix F, Appendix D, Acoustical Monitoring Study, Fall 2006

Appendix B Table 1. Summary of species and weather during each survey night at the Wethersfield high detector (35 m) – Fall 2006																	
Night of	Detector Nights	BIG BROWN GUILD				RBFP		MYSP			UNKN	Total	Mean Nightly Weather (7pm - 7am)				
		big brown bat	hoary bat	silver-haired bat	silver-haired/big brov	eastern pipistrelle	eastern red bat	little brown bat	<i>Myotis</i> spp.	northern myotis	small-footed myotis		unknown	Wind Speed (m/s)	Wind Direction (degrees from true north)	Temperature (c)	
25-Jul	1											2	2	3.6	180.0	23.4	
26-Jul	1								1			1	2	5.1	205.0	25.0	
27-Jul	1						1					1	2	4.4	205.0	23.3	
28-Jul	1											1	1	4.9	205.0	22.9	
29-Jul	1											1	1	3.4	270.0	22.9	
30-Jul	1											1	1	3.0	205.0	23.8	
31-Jul	1				1								1	2.2	135.0	25.5	
1-Aug	1											3	3	0.4	256.3	23.3	
2-Aug	1											1	1	0.4	251.0	23.4	
3-Aug	1												0	0.4	320.5	17.6	
4-Aug	1											1	1	0.4	290.7	14.7	
5-Aug	1								1				1	0.4	123.5	15.3	
6-Aug	1												0	0.4	239.0	20.0	
7-Aug	1				1							1	2	0.4	310.5	14.9	
8-Aug	1												0	0.4	98.5	13.7	
9-Aug	1												0	0.4	275.0	15.9	
10-Aug	1											1	1	5.1	69.0	13.8	
11-Aug	1												0	1.9	122.8	11.0	
12-Aug	1												0	2.6	191.1	12.1	
13-Aug	0												n/o	5.9	246.4	13.9	
14-Aug	0												n/o	5.6	275.2	16.2	
15-Aug	0												n/o	3.9	272.7	12.9	
16-Aug	0												n/o	3.8	99.1	14.7	
17-Aug	0												n/o	5.2	155.6	18.1	
18-Aug	0												n/o	5.1	207.5	19.8	
19-Aug	0												n/o	6.5	252.4	18.0	
20-Aug	0												n/o	4.8	309.1	13.2	
21-Aug	0												n/o	5.6	253.9	12.3	
22-Aug	0												n/o	3.3	289.9	14.5	
23-Aug	0												n/o	3.5	177.0	14.5	
24-Aug	1											1	1	3.5	146.7	14.2	
25-Aug	1												0	5.1	64.9	14.9	
26-Aug	0												n/o	5.8	160.4	18.0	
27-Aug	0												n/o	2.2	230.6	17.7	
28-Aug	0												n/o	6.2	60.0	15.1	
29-Aug	0												n/o	4.4	48.6	14.2	
30-Aug	0												n/o	7.2	67.0	9.2	
31-Aug	0												n/o	6.7	75.5	10.6	
1-Sep	0												n/o	6.6	75.6	12.4	
2-Sep	0												n/o	5.6	107.7	9.9	
3-Sep	0												n/o	7.1	265.0	10.8	
4-Sep	0												n/o	1.4	280.7	12.2	
5-Sep	0												n/o	4.5	265.7	11.5	
6-Sep	0												n/o	3.0	256.0	11.9	
7-Sep	0												n/o	6.0	231.5	13.9	
8-Sep	1												0	6.7	234.5	14.9	
9-Sep	1												0	4.2	63.9	10.3	
10-Sep	1												0	5.3	77.2	6.5	
11-Sep	0												n/o	5.5	132.3	10.4	
12-Sep	0												n/o	6.8	170.1	11.1	
13-Sep	0												n/o	4.6	180.0	12.8	
14-Sep	0												n/o	2.3	287.7	13.1	
15-Sep	0												n/o	3.1	58.7	13.4	
16-Sep	0												n/o	3.4	175.8	13.3	
17-Sep	0												n/o	8.0	215.8	14.9	
18-Sep	0												n/o	6.0	223.3	16.1	
19-Sep	0												n/o	6.2	257.0	8.7	
20-Sep	1											2	2	4.7	257.6	4.5	
21-Sep	1												0	4.2	193.0	6.0	
22-Sep	0												n/o	6.5	177.3	12.5	
23-Sep	0												n/o	8.6	219.2	16.8	
24-Sep	0												n/o	6.2	291.6	9.0	
25-Sep	0												n/o	6.9	267.3	8.6	
26-Sep	0												n/o	6.2	197.4	9.1	
27-Sep	0												n/o	6.0	193.5	12.2	
28-Sep	0												n/o	5.5	303.8	4.7	
29-Sep	0												n/o	6.0	208.1	3.9	
30-Sep	0												n/o	5.5	193.4	7.7	
1-Oct	0												n/o	5.5	277.6	5.2	
2-Oct	0												n/o	8.3	229.3	13.1	
3-Oct	0												n/o	5.8	226.8	11.6	
4-Oct	0												n/o	5.2	99.6	5.5	
5-Oct	0												n/o	4.8	54.7	2.6	
6-Oct	0												n/o	5.2	73.2	3.0	
7-Oct	0												n/o	5.2	174.0	8.6	
8-Oct	0												n/o	6.6	253.5	12.6	
9-Oct	0												n/o	3.4	241.5	9.7	
By Species		0	0	0	2	0	1	0	2	0	0	17	22				
By Guild		2				1		2				17					
		BIG BROWN GUILD				RBFP		MYSP			UNKN	Total					

n/o - indicates that detector was not operating on that night

Appendix F, Appendix D, Acoustical Monitoring Study, Fall 2006

Appendix B Table 2. Summary of species and weather during each survey night at the Wethersfield low detector (15 m) – Fall 2006																
Night of	Detector Nights	BIG BROWN GUILD				RBFP		MYSP				UNKN	Total	Mean Nightly Weather (7pm - 7am)		
		big brown bat	hoary bat	silver-haired bat	silver-haired/big bro	eastern pipistrelle	eastern red bat	little brown bat	Myotis spp.	northern myotis	small-footed myotis	unknown		Wind Speed (m/s)	Wind Direction (degrees from true north)	Temperature (c)
25-Jul	1												0	3.6	180.0	23.4
26-Jul	1												0	5.1	205.0	25.0
27-Jul	1												0	4.4	205.0	23.3
28-Jul	1												0	4.9	205.0	22.9
29-Jul	1												0	3.4	270.0	22.9
30-Jul	1												0	3.0	205.0	23.8
31-Jul	1												0	2.2	135.0	25.5
1-Aug	0												n/o	0.4	256.3	23.3
2-Aug	0												n/o	0.4	251.0	23.4
3-Aug	0												n/o	0.4	320.5	17.6
4-Aug	0												n/o	0.4	290.7	14.7
5-Aug	0												n/o	0.4	123.5	15.3
6-Aug	0												n/o	0.4	239.0	20.0
7-Aug	0												n/o	0.4	310.5	14.9
8-Aug	0												n/o	0.4	98.5	13.7
9-Aug	0												n/o	0.4	275.0	15.9
10-Aug	0												n/o	5.1	69.0	13.8
11-Aug	0												n/o	1.9	122.8	11.0
12-Aug	0												n/o	2.6	191.1	12.1
13-Aug	0												n/o	5.9	246.4	13.9
14-Aug	0												n/o	5.6	275.2	16.2
15-Aug	0												n/o	3.9	272.7	12.9
16-Aug	0												n/o	3.8	99.1	14.7
17-Aug	0												n/o	5.2	155.6	18.1
18-Aug	0												n/o	5.1	207.5	19.8
19-Aug	0												n/o	6.5	252.4	18.0
20-Aug	0												n/o	4.8	309.1	13.2
21-Aug	0												n/o	5.6	253.9	12.3
22-Aug	0												n/o	3.3	289.9	14.5
23-Aug	0												n/o	3.5	177.0	14.5
24-Aug	0												n/o	3.5	146.7	14.2
24-Aug	1												0	5.1	64.9	14.9
25-Aug	1												0	5.8	160.4	18.0
26-Aug	1												0	2.2	230.6	17.7
27-Aug	1												0	6.2	60.0	15.1
28-Aug	1												0	4.4	48.6	14.2
29-Aug	1												0	7.2	67.0	9.2
30-Aug	1												0	6.7	75.5	10.6
31-Aug	1												0	6.6	75.6	12.4
1-Sep	1												0	5.6	107.7	9.9
2-Sep	1												0	7.1	265.0	10.8
3-Sep	1												0	1.4	280.7	12.2
4-Sep	1												0	4.5	265.7	11.5
5-Sep	1												0	3.0	256.0	11.9
6-Sep	1												0	6.0	231.5	13.9
7-Sep	1												0	6.7	234.5	14.9
8-Sep	1												0	4.2	63.9	10.3
9-Sep	1												0	5.3	77.2	6.5
10-Sep	1												0	5.5	132.3	10.4
11-Sep	1												0	6.8	170.1	11.1
12-Sep	1												0	4.6	180.0	12.8
13-Sep	1												0	2.3	287.7	13.1
14-Sep	1												0	3.1	58.7	13.4
15-Sep	1												0	3.4	175.8	13.3
16-Sep	1												0	8.0	215.8	14.9
17-Sep	1												0	6.0	223.3	16.1
18-Sep	1												0	6.2	257.0	8.7
19-Sep	1												0	4.7	257.6	4.5
20-Sep	1												0	4.2	193.0	6.0
21-Sep	1												0	6.5	177.3	12.5
22-Sep	1												0	8.6	219.2	16.8
23-Sep	1												0	6.2	291.6	9.0
24-Sep	1												0	6.9	267.3	8.6
25-Sep	1												0	6.2	197.4	9.1
26-Sep	1												0	6.0	193.5	12.2
27-Sep	1												0	5.5	303.8	4.7
28-Sep	1												0	6.0	208.1	3.9
29-Sep	1												0	5.5	193.4	7.7
30-Sep	1												0	5.5	277.6	5.2
1-Oct	1												0	8.3	229.3	13.1
2-Oct	1												0	5.8	226.8	11.6
3-Oct	1												0	5.2	99.6	5.5
4-Oct	1												0	4.8	54.7	2.6
5-Oct	1												0	5.2	73.2	3.0
6-Oct	1												0	5.2	174.0	8.6
7-Oct	1												0	6.6	253.5	12.6
8-Oct	1												0	3.4	241.5	9.7
9-Oct	1												0	5.6	138.7	11.9
By Species		0	0	0	0	0	0	0	0	0	0	0	0			
By Guild		0				0		0				0	0			
		BIG BROWN GUILD				RBFP		MYSP				UNKN	Total			

n/o - indicates that detector was not operating on that night