

June 11, 2024

VIA E-MAIL AND FEDERAL EXPRESS

Mr. Steven Kahl
Executive Secretary
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

**Re: Otter Tail Power Company
Amend – Ashtabula Wind III Upgrade
Siting Application – Barnes County
Case No. PU-23-256**

Dear Mr. Kahl:

Enclosed for filing in connection with the above-referenced matter are an original and six (6) copies of this letter and the following documents, submitted by Otter Tail Power Company (“Otter Tail”):

1. Sound Level Assessment Report;
2. One letter from the State Historical Society of North Dakota, dated May 22, 2024;
3. Three Property Line Setback Waiver Agreements (Whittenberg (Turbine 269), Swanberg (Turbines 275 and 277), and Svenningsen (Turbines 276 and 277)); and
4. A Road Setback Variance and Building Permit from Barnes County.

At the time the North Dakota Public Service Commission (“Commission”) issued its Order, dated October 24, 2023, in the above-referenced matter, Otter Tail had obtained sound waivers from the owners of three residences (*see* Appendix A (Acoustic Assessment Results and Sound Waivers) to Exhibit A (Environmental and Regulatory Compliance Memorandum) filed with the Certification of Timothy J. Rogelstad Docket Item #1). Otter Tail was also seeking sound waivers from the owners of three additional residences; however, Otter Tail does not anticipate obtaining any additional sound waivers for the project. The previously filed Sound Level Assessment Report accounted for some, but not all, of the waivers received. The enclosed updated Sound Level Assessment Report accounts for all waivers received and demonstrates compliance with the Commission’s sound avoidance area requirement in NDAC § 69-06-08-01(4) at the three residences for which waivers were not obtained (i.e., Receptors A13, A269, and A273) using sound reduction technology. Although a sound waiver was obtained for Receptors A170 and A277, use of sound reduction technology on turbines near these receptors resulted in a modeled sound level at or below 45 dBA.

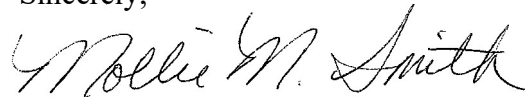
Mr. Steven Kahl
June 11, 2024
Page 2

At the time of the Commission's Order, Otter Tail was in the process of obtaining property line setback waivers from three landowners for four turbines. All three property line setback waivers have been obtained and are enclosed. Additionally, Otter Tail was in the process of obtaining a road setback variance from Barnes County for three turbines. Barnes County granted the variance on September 19, 2023, and a copy is enclosed.

Electronic versions of the enclosures and this letter were submitted to the Commission today via e-mail.

If you have any questions, please let me know.

Sincerely,

A handwritten signature in black ink that reads "Mollie M. Smith". The signature is written in a cursive style with a large initial "M".

MOLLIE M. SMITH

MMS/82291633
Enclosures

cc: Lisa McFarland (w/ enclosures, via e-mail)
Bryce Haugen (w/ enclosures, via e-mail)



SOUND LEVEL ASSESSMENT REPORT

Otter Tail Ashtabula III Wind Repower Project Barnes County, North Dakota

Prepared for:

Atwell, LLC
311 North Main
Ann Arbor, Michigan 48104

Prepared by:



Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

May 24, 2024

TABLE OF CONTENTS

| | | |
|------------|-----------------------------------|------------|
| 1.0 | EXECUTIVE SUMMARY | 1-1 |
| 2.0 | INTRODUCTION | 2-1 |
| 3.0 | SOUND TERMINOLOGY | 3-1 |
| 4.0 | NOISE REGULATIONS | 4-1 |
| 4.1 | Federal Regulations | 4-1 |
| 4.2 | North Dakota State Regulations | 4-1 |
| 4.3 | Local Regulations | 4-1 |
| 5.0 | MODELED SOUND LEVELS | 5-1 |
| 5.1 | Sound Sources | 5-1 |
| 5.1.1 | Project Wind Turbines | 5-1 |
| 5.2 | Modeling Methodology | 5-1 |
| 5.3 | Sound Level Modeling Results | 5-5 |
| 6.0 | EVALUATION OF SOUND LEVELS | 6-1 |
| 7.0 | CONCLUSIONS | 7-1 |

LIST OF APPENDICES

| | |
|------------|--|
| Appendix A | Sound Source Coordinates |
| Appendix B | Sound Level Modeling Results - Tabular |

LIST OF FIGURES

| | | |
|------------|--|-----|
| Figure 2-1 | Aerial Locus | 2-2 |
| Figure 3-1 | Common Indoor and Outdoor Sound Levels | 3-3 |
| Figure 5-1 | Sound Level Modeling Locations | 5-4 |
| Figure 5-2 | Sound Level Modeling Results | 5-6 |

LIST OF TABLES

| | | |
|-----------|--|-----|
| Table 5-1 | Summary of Key Sound Level Modeling Inputs | 5-3 |
|-----------|--|-----|

1.0 EXECUTIVE SUMMARY

The Ashtabula III Wind Energy Center Repowering Project (the Project) is an existing wind park in Barnes County, North Dakota that is planned to be repowered by Otter Tail Power Company (Otter Tail). Atwell has retained Epsilon Associates, Inc. (Epsilon) to conduct a sound level assessment for this Project. This report presents the results of the sound level modeling from the proposed repower in Barnes County.

This sound level assessment includes computer modeling to predict worst-case future L_{eq} sound levels from the Project, and a comparison of operational sound levels to the North Dakota Administrative Code Energy Conversion Facility Siting Criteria of 45 dBA within 100 feet of an inhabited residence or community building. Additionally, receptors that have signed noise waivers with Otter Tail Power have been compared to the Waiver criterion of 50 dBA within 200 feet of the inhabited residence. Sound level modeling was conducted for all Otter Tail Ashtabula III Wind Repower wind turbines.

The L_{eq} sound levels modeled at receptors in Barnes County ranged from 25 to 49 dBA. The highest L_{eq} sound level modeled at a receptor that has signed a waiver with Otter Tail is 49 dBA. The highest L_{eq} sound level modeled at a receptor that has not signed a waiver with Otter Tail is 45 dBA. Using the mitigation described in this report, the L_{eq} sound levels at all receptors without a signed waiver are at or below the limit of 45 dBA within 100 feet of an inhabited residence. Therefore, the Project meets the State's regulations with respect to sound.

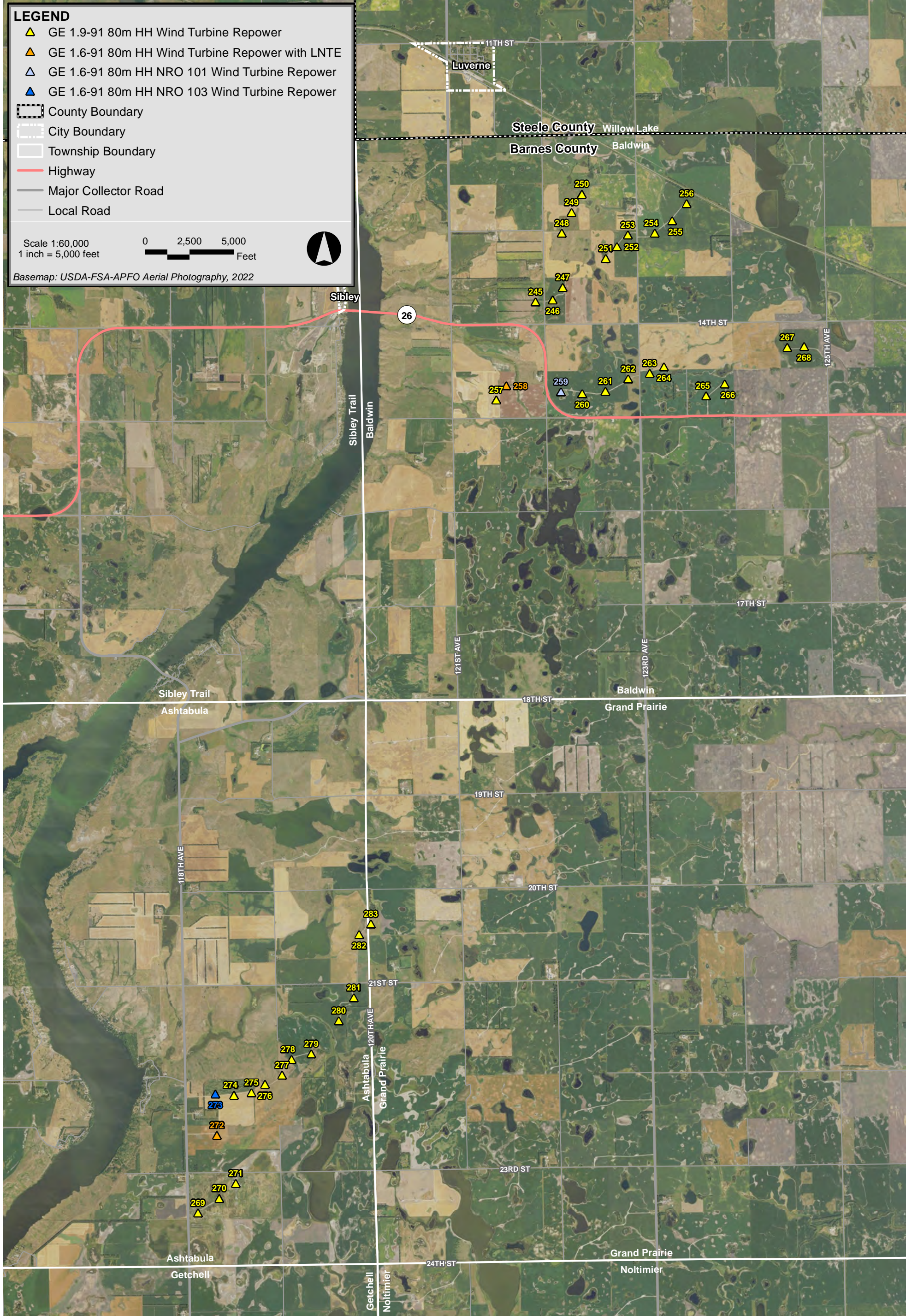
2.0 INTRODUCTION

The proposed repower Project will consist of 39 repowered wind turbines. The proposed wind turbines are all GE 1.6 MW units with a rotor diameter of 91 meters and a hub height of 80 meters. Figure 2-1 shows the locations of the 39 wind turbines in Barnes County over aerial imagery.

A detailed discussion of sound from wind turbines is presented in a white paper prepared by the Renewable Energy Research Laboratory.¹ A few points are repeated herein. Wind turbine sound can originate from two different sources: mechanical sound from the interaction of turbine components, and aerodynamic sound produced by the flow of air over the rotor blades. Prior to the 1990's, both were significant contributors to wind turbine sound. However, recent advances in wind turbine design have greatly reduced the contribution of mechanical sound. Aerodynamic sound has also been reduced from modern wind turbines due to slower rotational speeds and changes in materials of construction. Aerodynamic sound, in general, is broadband (has contributions from a wide range of frequencies). It originates from encounters of the wind turbine blades with localized airflow inhomogeneities and wakes from other turbine blades and from airflow across the surface of the blades, particularly the front and trailing edges. Aerodynamic sound generally increases with increasing wind speed up to a certain point, then typically remains constant, even with higher wind speeds. However, sound levels in general also increase with increasing wind speed with or without the presence of wind turbines.

This report presents the findings of a sound level modeling analysis for the Project. The Project wind turbines were modeled in CadnaA using sound data from GE technical reports. The results of this analysis are found within this report.

¹ Renewable Energy Research Laboratory, Department of Mechanical and Industrial Engineering, University of Massachusetts at Amherst, Wind Turbine Acoustic Noise, June 2002, amended January 2006.



Ashtabula III Repower Barnes County, North Dakota

3.0 SOUND TERMINOLOGY

There are several ways in which sound levels are measured and quantified. All of them use the logarithmic decibel (dB) scale. The following information defines the sound level terminology used in this analysis.

The decibel scale is logarithmic to accommodate the wide range of sound intensities found in the environment. A property of the decibel scale is that the sound pressure levels of two or more separate sounds are not directly additive. For example, if a sound of 50 dB is added to another sound of 50 dB, the total is only a 3-decibel increase (53 dB), which is equal to doubling in sound energy, but not equal to a doubling in decibel quantity (100 dB). Thus, every 3-dB change in sound level represents a doubling or halving of sound energy. The human ear does not perceive changes in the sound pressure level as equal changes in loudness. Scientific research demonstrates that the following general relationships hold between sound level and human perception for two sound levels with the same or very similar frequency characteristics²:

- 3 dB increase or decrease results in a change in sound that is just perceptible to the average person,
- 5 dB increase or decrease is described as a clearly noticeable change in sound level, and
- 10 dB increase or decrease is described as twice or half as loud.

Another mathematical property of decibels is that if one source of sound is at least 10 dB louder than another source, then the total sound level is simply the sound level of the higher-level source. For example, a sound source at 60 dB plus another sound source at 47 dB is equal to 60 dB.

A sound level meter (SLM) that is used to measure sound is a standardized instrument.³ It contains “weighting networks” (e.g., A-, C-, Z-weightings) to adjust the frequency response of the instrument. Frequencies, reported in Hertz (Hz), are detailed characterizations of sounds, often addressed in musical terms as “pitch” or “tone”. The most commonly used weighting network is the A-weighting because it most closely approximates how the human ear responds to sound at various frequencies. The A-weighting network is the accepted scale used for community sound level measurements; therefore, sounds are frequently reported as detected with a sound level meter using this weighting. A-weighted sound levels emphasize middle frequency sounds (i.e., middle pitched – around 1,000 Hz), and de-emphasize low and high frequency sounds. These sound levels are reported in decibels designated as “dBA”. The C-weighting network has a nearly flat response for frequencies between 63 Hz and 4,000 Hz and is noted as dBC. Z-weighted sound levels are measured sound levels without any weighting curve and are otherwise referred

² Bies, David, and Colin Hansen. 2009. *Engineering Noise Control: Theory and Practice*, 4th Edition. New York: Taylor and Francis.

³ *American National Standard Electroacoustics – Sound Level Meters – Part 1: Specifications*, ANSI S1.4-2014 (R2019), published by the Standards Secretariat of the Acoustical Society of America, Melville, NY.

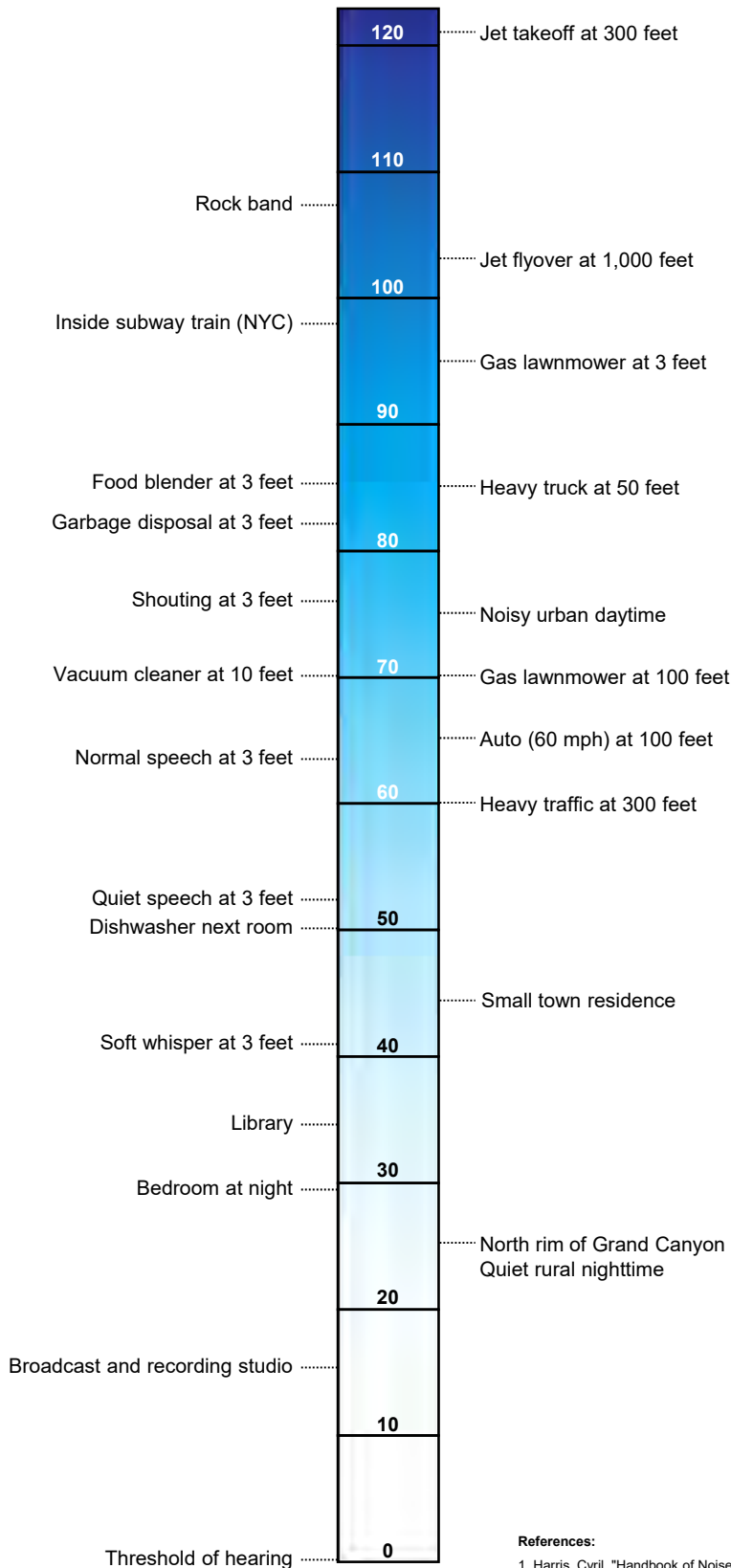
to as “unweighted”. Sound pressure levels for some common indoor and outdoor environments are shown in Figure 3-1.

Because the sounds in our environment vary with time they cannot simply be described with a single number. Two methods are used for describing variable sounds. These are exceedance levels and the equivalent level, both of which are derived from some number of moment-to-moment A-weighted sound level measurements. Exceedance levels are values from the cumulative amplitude distribution of all the sound levels observed during a measurement period. Exceedance levels are designated L_n , where n can have a value between 0 and 100 in terms of percentage. The L_{eq} is a sound level metric that is commonly reported in community sound level monitoring and is utilized in this report. The L_{eq} is described in further detail below.

- L_{eq} , the equivalent level, is the level of a hypothetical steady sound that would have the same energy (*i.e.*, the same time-averaged mean square sound pressure) as the actual fluctuating sound observed. The equivalent level is designated L_{eq} and is typically A-weighted. The equivalent level represents the time average of the fluctuating sound pressure, but because sound is represented on a logarithmic scale and the averaging is done with linear mean square sound pressure values, the L_{eq} is mostly determined by loud sounds if there are fluctuating sound levels.

Sound Pressure Level, dBA

COMMON INDOOR SOUNDS **COMMON OUTDOOR SOUNDS**



References:

- Harris, Cyril, "Handbook of Noise Acoustical Measurements and Noise Control", p 1-10., 1998
- "Controlling Noise", USAF, AFMC, AFDT, Elgin AFB, Fact Sheet, August 1996
- California Dept. of Trans., "Technical Noise Supplement", Oct, 1998

4.0 NOISE REGULATIONS

4.1 Federal Regulations

There are no federal community noise regulations applicable to this Project.

4.2 North Dakota State Regulations

The Project, located in North Dakota, is required to comply with the following sound requirement:

Section 69-06-08-01 Energy Conversion Facility Siting Criteria

4. Additional avoidance areas for wind energy conversion facilities. A wind energy conversion facility site must not include a geographic area where, due to operation of the facility, the sound levels within one hundred feet of an inhabited residence or a community building will exceed forty-five dBA. The sound level avoidance area criteria may be waived in writing by the owner of the occupied residence or the community building.

4.3 Local Regulations

There are no local community noise regulations applicable to this Project.

Therefore, modeling receptors were evaluated in this analysis against the 45 dBA limit.

5.0 MODELED SOUND LEVELS

5.1 Sound Sources

5.1.1 *Project Wind Turbines*

The sound level analysis for the Project includes 39 wind turbines. These 39 wind turbines are depicted in Figure 5-1. The array consists of one (1) wind turbine model: the GE 1.6-91 at a hub height of 80-meters. Wind turbines 258, and 272 will have Low Noise Trailing Edge (LNTE) blades. Wind turbine 273 will be in NRO 103 mode. Wind turbine 259 will be in NRO 101 mode. The GE 1.6-91 wind turbines have a rotor diameter of 91 meters. Technical reports from GE^{4,5} were provided to Epsilon which documented the expected sound power levels associated with the GE 1.6-91.

5.2 Modeling Methodology

The sound impacts associated with the proposed wind turbines were predicted using the CadnaA sound level calculation software developed by DataKustik GmbH. This software uses the ISO 9613-2 international standard for sound propagation.⁶ The benefits of this software are a more refined set of computations due to the inclusion of topography, ground attenuation, multiple building reflections (if applicable), drop-off with distance, and atmospheric absorption. The CadnaA software allows for octave band calculation of sound from multiple sources as well as computation of diffraction.

Inputs and significant parameters employed in the model are described below and summarized in Table 5-1 below.

- *Project Array:* This analysis is for the wind turbine array provided to Epsilon on January 26, 2023. The Project array is identified in Figure 5-1. The wind turbine coordinates are provided in Appendix A.
- *Modeling Receptor Locations:* A modeling receptor dataset dated January 26, 2023 was provided to Epsilon. The dataset included 316 receptors. This dataset was clipped such that only receptors within 1.5 miles of an Otter Tail Ashtabula III wind turbine were included in the analysis. Atwell provided additional information indicating if each receptor was inhabited or uninhabited, the resulting 141 inhabited receptors were input to the CadnaA model. All modeling receptors were input as discrete points at a height of 1.5 meters above ground level to mimic the ears of a typical standing person. In order to provide robust modeling coverage of each inhabited location, additional modeling locations were included offset by 100 feet away (or 200 feet for receptors with signed waivers) from the center point of the receptor in each of the four cardinal directions (north,

⁴ General Electric Company, Technical Documentation Wind Turbine Generator Systems 1.6-91 – 60 Hz Product Acoustic Specifications, Rev. 03, 2021.

⁵ General Electric Company, Technical Documentation Wind Turbine Generator Systems 1.6-91 RePower with LNTE – 60 Hz Product Acoustic Specifications, Rev. 03, 2021.

⁶ *Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation*, International Standard ISO 9613-2:1996 (International Organization for Standardization, Geneva, Switzerland, 1996).

south, east and west). Therefore, each inhabited location was evaluated at a total of five locations; the center point of the receptor itself, and at the four offset locations on land 100 feet (or 200 feet for receptors with signed waivers) from the receptor. This resulted in a total of 705 receptors. The center points of the modeled locations (receptors) are shown in Figure 5-1. Details of each modeling location are presented in Appendix B.

- *Modeling Grid:* A modeling grid with 20-meter spacing was calculated for the entire Project Area and the surrounding region. The grid was modeled at a height of 1.5 meters above ground level for consistency with the discrete modeling points. This modeling grid allowed for the creation of sound level isolines.
- *Terrain Elevation:* Elevation contours for the modeling domain were directly imported into CadnaA which allowed for consideration of terrain shielding where appropriate. The terrain height contour elevations for the modeling domain were generated from elevation information derived from the National Elevation Dataset (NED) developed by the U.S. Geological Survey.
- *Source Sound Levels:* Sound power levels used in the modeling were described in Section 5.1. Documentation from GE provided levels that represent “worst-case” operational sound level emissions for the Project’s proposed wind turbines were input into the model.
- *Meteorological Conditions:* A temperature of 10°C (50°F) and a relative humidity of 70% was assumed in the model.
- *Ground Attenuation:* Spectral ground absorption was calculated using a G-factor of 0 which corresponds to “hard ground” consisting of a hard ground surface. The model, consistent with the standard, allows inputs between 0 (hard ground) and 1 (porous ground). This is a conservative approach as the vast majority of the area is actually agricultural.

Octave band sound power levels corresponding to the highest available wind turbine broadband sound power level for each wind turbine type were input into CadnaA to model wind turbine generated L_{eq} sound pressure levels during conditions when worst-case sound power levels are expected. Sound pressure levels were modeled at 705 receptors representing 141 inhabited locations within the vicinity of the Project. In addition to modeling at discrete points, sound levels were also modeled throughout a large grid of points, each spaced 20 meters apart to allow for the generation of sound level isolines.

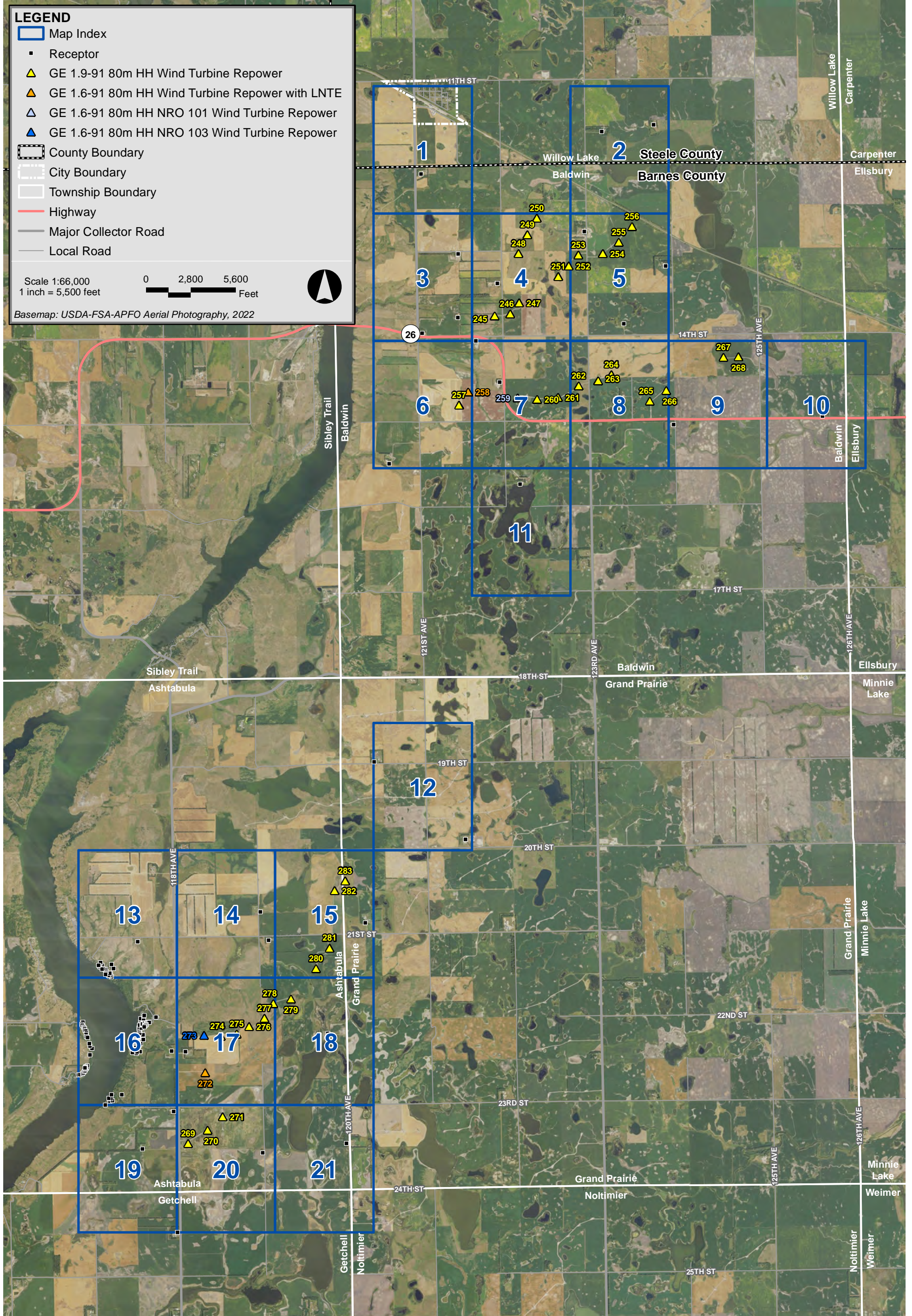
Several modeling assumptions inherent in the ISO 9613-2 calculation methodology, or selected as conditional inputs by Epsilon, were implemented in the CadnaA model to ensure conservative results (i.e., higher sound levels), and are described below:

- All modeled sources were assumed to be operating simultaneously and at the design wind speed corresponding to the greatest sound level impacts.
- As per ISO 9613-2, the model assumed favorable conditions for sound propagation, corresponding to a moderate, well-developed ground-based temperature inversion, as might occur on a calm, clear night or equivalently downwind propagation.
- Meteorological conditions assumed in the model (T=10°C/RH=70%) were selected to minimize atmospheric attenuation in the 500 Hz and 1 kHz octave bands where the human ear is most sensitive.

- No additional attenuation due to tree shielding, air turbulence, or wind shadow effects was considered in the model.

Table 5-1 Summary of Key Sound Level Modeling Inputs

| Modeling Parameter | Description / Value |
|---------------------------------|---------------------------------|
| Wind Turbine Array | Provided by Atwell |
| Terrain | U.S.G.S. Data |
| Wind Turbine Sound Power Levels | GE Specifications Documentation |
| Meteorological Conditions | T=10°C / RH=70% |
| Ground Absorption Factor | 0 |



Ashtabula III Repower Barnes County, North Dakota



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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | |  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> | |  | |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▬ County Boundary ▬ City Boundary ▬ Township Boundary ▬ Highway ▬ Major Collector Road ▬ Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p> <div style="display: flex; justify-content: center; align-items: center;"> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">0</div> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">300</div> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">600</div> <div style="margin-right: 5px;">Feet</div> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> </div> | |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▬ County Boundary ▬ City Boundary ▬ Township Boundary ▬ Highway ▬ Major Collector Road ▬ Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> | <table border="1" style="width: 100%; text-align: center;"> <tr><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td></tr> <tr><td>11</td><td></td></tr> <tr><td></td><td>12</td></tr> <tr><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td></tr> <tr><td>21</td><td></td></tr> </table> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
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| 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▬ County Boundary ▬ City Boundary ▬ Township Boundary ▬ Highway ▬ Major Collector Road ▬ Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">300</div> <div style="margin-right: 5px;">600</div> <div style="margin-left: 5px;">Feet</div> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> </div> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▬ County Boundary ▬ City Boundary ▬ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▬ County Boundary ▬ City Boundary ▬ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE ▲ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p> <div style="display: flex; justify-content: center; align-items: center;"> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> 0 300 600 Feet </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> </div> |  |
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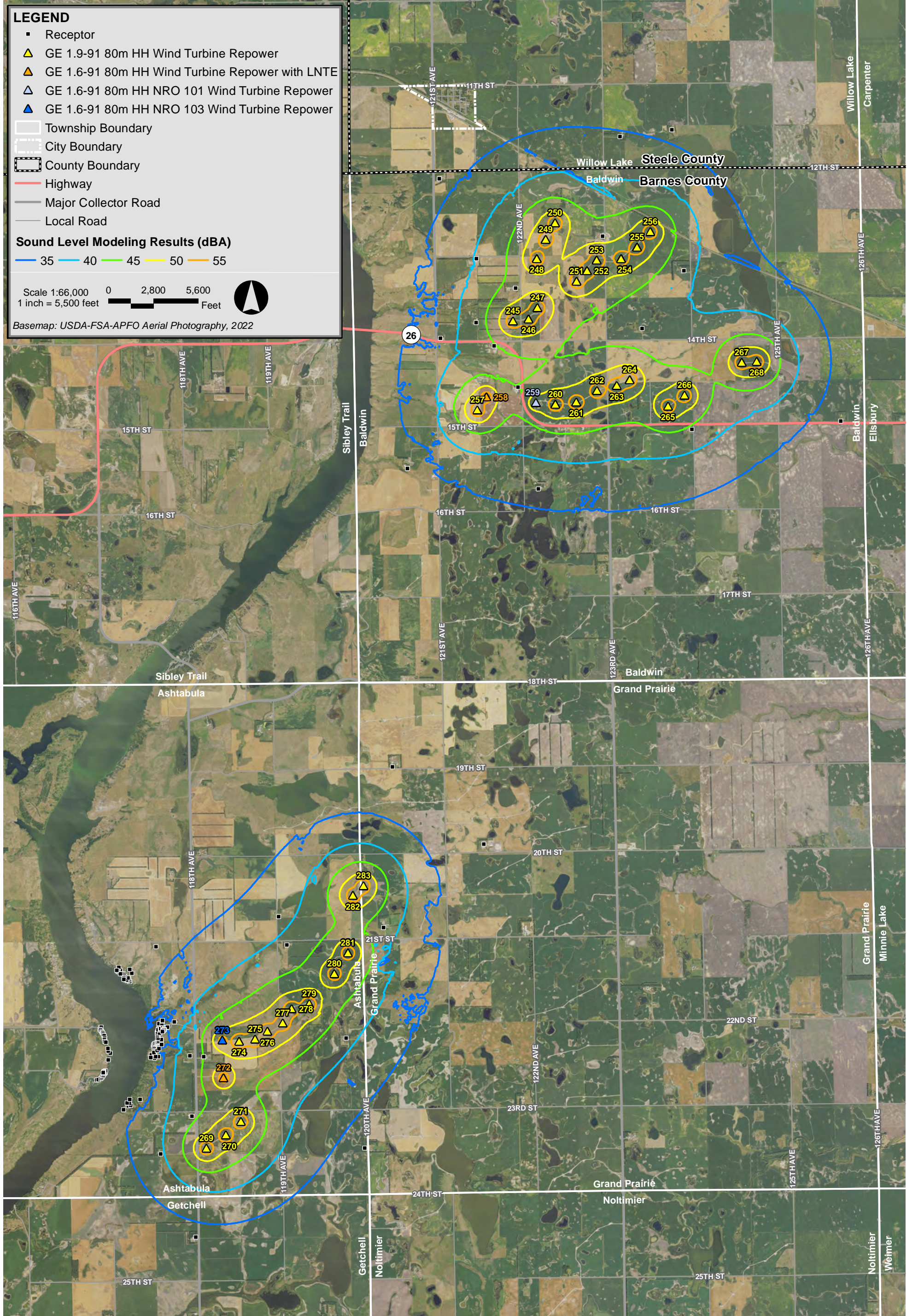


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| <p>LEGEND</p> <ul style="list-style-type: none"> ■ Receptor ▲ GE 1.9-91 80m HH Wind Turbine Repower ▲ GE 1.6-91 80m HH Wind Turbine Repower with LNTE △ GE 1.6-91 80m HH NRO 101 Wind Turbine Repower ▲ GE 1.6-91 80m HH NRO 103 Wind Turbine Repower | <ul style="list-style-type: none"> ▭ County Boundary ▭ City Boundary ▭ Township Boundary — Highway — Major Collector Road — Local Road | <div style="text-align: center;">  <p>Scale 1:7,200 1 inch = 600 feet</p>  <p>0 300 600 Feet</p> </div> <p>Basemap: USDA-FSA-APFO Aerial Photography, 2022</p> |  |
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5.3 Sound Level Modeling Results

All modeled sound levels, as output from CadnaA are A-weighted equivalent sound levels (L_{eq} , dBA). Table B-1.1 in Appendix B shows the predicted broadband (dBA) sound levels at the 141 receptors and their additional offset locations modeled for the Project. The broadband L_{eq} sound levels range from 25 to 49 dBA. These sound levels represent the worst-case future L_{eq} sound levels produced by the Project wind turbines. The maximum modeled sound level of 49 dBA occurs at receptor A265, which has signed a waiver with Otter Tail Power. The highest modeled sound level at a receptor which has not signed a waiver with Otter Tail Power is 45 dBA. This occurs at receptors A269 and A273. Table B-1.2 in Appendix B shows the predicted sound levels sorted from high to low.

In addition to the discrete modeling points, L_{eq} sound level isolines generated from the modeling grid are presented in Figure 5-2.



Ashtabula III Repower Barnes County, North Dakota

6.0 EVALUATION OF SOUND LEVELS

The Project is subject to the requirements contained in the North Dakota Energy Conversion Facility Siting Criteria. Sound levels from operation of the Project are limited by these regulations to 45 dBA within 100 feet of an inhabited residence or community building. Additionally, sound levels from the operation of the Project are limited to 50 dBA within 200 feet of an inhabited residence for any location with a signed Noise Waiver with Otter Tail Power. All modeled sound levels, as output from CadnaA and presented in Appendix B, are A-weighted equivalent sound levels (L_{eq} , dBA). These levels may be used in evaluating measured sound pressure levels over typical averaging durations, (i.e., ten (10) minutes or one (1) hour).

A review of Table B-1.2 in Appendix B shows the highest sound level within 100 feet of an inhabited residence that has not signed a waiver with Otter Tail Power in this analysis to be 45 dBA. This occurs at receptors A269, and A273. The results also show that the highest sound level within 200 feet of an inhabited residence that has signed a waiver with Otter Tail Power in this analysis to be 49 dBA. This occurs at receptor A265. Therefore, the Project is in compliance with the North Dakota Administrative Code Energy Conversion Facility Siting Criteria with respect to sound.

7.0 CONCLUSIONS

A comprehensive sound level modeling assessment was conducted for the Otter Tail Ashtabula III Wind Repower Project within Barnes County, North Dakota. Sound levels resulting from the operation of all 39 Project wind turbines were calculated at 705 modeling receptors, and isolines were generated from a grid encompassing the area surrounding the wind turbines. The predicted L_{eq} sound levels at all receptors in the study area ranged from 25 to 49 dBA. Predicted sound levels at all receptor locations that have not signed a waiver with Otter Tail Power are all at or below the state limit of 45 dBA within 100 feet of an inhabited residence. Predicted sound levels at all receptor locations that have signed waivers with Otter Tail Power are below the waiver limit of 50 dBA within 200 feet of an inhabited residence. Thus, the Project meets the requirements with respect to sound in the regulations.

Appendix A

Sound Source Coordinates

Table A-1: Wind Turbine Coordinates

| Wind Turbine ID | Wind Turbine Type | Hub Height (m) | Coordinates NAD83 UTM Zone 14N (meters) | |
|-----------------|-------------------|----------------|---|--------------|
| | | | X (Easting) | Y (Northing) |
| 245 | GE 1.6-91 | 80 | 581717.66 | 5229598.24 |
| 246 | GE 1.6-91 | 80 | 582012.42 | 5229635.89 |
| 247 | GE 1.6-91 | 80 | 582183.94 | 5229849.35 |
| 248 | GE 1.6-91 | 80 | 582170.96 | 5230782.84 |
| 249 | GE 1.6-91 | 80 | 582339.90 | 5231140.98 |
| 250 | GE 1.6-91 | 80 | 582517.46 | 5231454.68 |
| 251 | GE 1.6-91 | 80 | 582926.29 | 5230349.12 |
| 252 | GE 1.6-91 | 80 | 583120.48 | 5230551.47 |
| 253 | GE 1.6-91 | 80 | 583307.08 | 5230754.28 |
| 254 | GE 1.6-91 | 80 | 583768.25 | 5230783.26 |
| 255 | GE 1.6-91 | 80 | 584068.52 | 5230998.71 |
| 256 | GE 1.6-91 | 80 | 584321.41 | 5231291.09 |
| 257 | GE 1.6-91 | 80 | 581043.96 | 5227910.83 |
| 258 | GE 1.6-91 | 80 | 581215.11 | 5228157.82 |
| 259 | GE 1.6-91 | 80 | 582155.80 | 5228048.21 |
| 260 | GE 1.6-91 | 80 | 582519.74 | 5228020.27 |
| 261 | GE 1.6-91 | 80 | 582920.85 | 5228058.89 |
| 262 | GE 1.6-91 | 80 | 583311.41 | 5228275.57 |
| 263 | GE 1.6-91 | 80 | 583681.72 | 5228369.83 |
| 264 | GE 1.6-91 | 80 | 583929.76 | 5228484.49 |
| 265 | GE 1.6-91 | 80 | 584656.40 | 5227983.44 |
| 266 | GE 1.6-91 | 80 | 584971.94 | 5228188.15 |
| 267 | GE 1.6-91 | 80 | 586053.44 | 5228815.13 |
| 268 | GE 1.6-91 | 80 | 586340.98 | 5228830.44 |
| 269 | GE 1.6-91 | 80 | 575905.22 | 5213915.82 |
| 270 | GE 1.6-91 | 80 | 576273.93 | 5214165.17 |
| 271 | GE 1.6-91 | 80 | 576559.11 | 5214424.59 |
| 272 | GE 1.6-91 | 80 | 576229.88 | 5215253.83 |
| 273 | GE 1.6-91 | 80 | 576205.65 | 5215965.07 |
| 274 | GE 1.6-91 | 80 | 576524.39 | 5215946.61 |
| 275 | GE 1.6-91 | 80 | 576827.37 | 5215984.09 |
| 276 | GE 1.6-91 | 80 | 577061.14 | 5216131.72 |
| 277 | GE 1.6-91 | 80 | 577355.02 | 5216291.03 |
| 278 | GE 1.6-91 | 80 | 577518.26 | 5216559.91 |
| 279 | GE 1.6-91 | 80 | 577857.50 | 5216654.27 |
| 280 | GE 1.6-91 | 80 | 578329.40 | 5217226.44 |
| 281 | GE 1.6-91 | 80 | 578589.97 | 5217618.67 |
| 282 | GE 1.6-91 | 80 | 578681.52 | 5218709.13 |
| 283 | GE 1.6-91 | 80 | 578883.97 | 5218889.87 |

Appendix B

Sound Level Modeling Results - Tabular

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A3 | No | 575704.05 | 5212231.60 | 33 |
| A3-E | No | 575734.51 | 5212231.98 | 33 |
| A3-S | No | 575704.43 | 5212201.13 | 33 |
| A3-W | No | 575673.58 | 5212231.21 | 33 |
| A3-N | No | 575703.66 | 5212262.06 | 33 |
| A8 | No | 575040.50 | 5213810.28 | 39 |
| A8-E | No | 575070.97 | 5213810.67 | 40 |
| A8-S | No | 575040.89 | 5213779.82 | 39 |
| A8-W | No | 575010.03 | 5213809.90 | 39 |
| A8-N | No | 575040.12 | 5213840.75 | 39 |
| A9 | No | 578905.24 | 5213921.42 | 33 |
| A9-E | No | 578935.70 | 5213921.83 | 33 |
| A9-S | No | 578905.64 | 5213890.96 | 33 |
| A9-W | No | 578874.77 | 5213921.02 | 33 |
| A9-N | No | 578904.83 | 5213951.89 | 33 |
| A13 | No | 575631.87 | 5214522.75 | 44 |
| A13-E | No | 575662.33 | 5214523.14 | 44 |
| A13-S | No | 575632.25 | 5214492.29 | 44 |
| A13-W | No | 575601.40 | 5214522.36 | 44 |
| A13-N | No | 575631.48 | 5214553.22 | 44 |
| A33 | No | 573827.25 | 5215213.23 | 32 |
| A33-E | No | 573857.72 | 5215213.60 | 32 |
| A33-S | No | 573827.63 | 5215182.76 | 32 |
| A33-W | No | 573796.79 | 5215212.85 | 32 |
| A33-N | No | 573826.87 | 5215243.69 | 32 |
| A34 | No | 573855.62 | 5215220.08 | 32 |
| A34-E | No | 573886.09 | 5215220.46 | 33 |
| A34-S | No | 573856.00 | 5215189.61 | 32 |
| A34-W | No | 573825.15 | 5215219.70 | 32 |
| A34-N | No | 573855.24 | 5215250.55 | 32 |
| A35 | No | 573902.19 | 5215240.25 | 33 |
| A35-E | No | 573932.66 | 5215240.63 | 33 |
| A35-S | No | 573902.57 | 5215209.78 | 33 |
| A35-W | No | 573871.72 | 5215239.87 | 32 |
| A35-N | No | 573901.81 | 5215270.72 | 32 |
| A36 | No | 573919.37 | 5215255.84 | 33 |
| A36-E | No | 573949.84 | 5215256.22 | 33 |
| A36-S | No | 573919.75 | 5215225.37 | 33 |
| A36-W | No | 573888.91 | 5215255.46 | 33 |
| A36-N | No | 573918.99 | 5215286.31 | 33 |
| A37 | No | 573934.78 | 5215282.21 | 33 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A37-E | No | 573965.25 | 5215282.59 | 33 |
| A37-S | No | 573935.16 | 5215251.74 | 33 |
| A37-W | No | 573904.32 | 5215281.83 | 33 |
| A37-N | No | 573934.41 | 5215312.67 | 33 |
| A38 | No | 573948.57 | 5215295.71 | 33 |
| A38-E | No | 573979.03 | 5215296.09 | 33 |
| A38-S | No | 573948.94 | 5215265.25 | 33 |
| A38-W | No | 573918.10 | 5215295.33 | 33 |
| A38-N | No | 573948.19 | 5215326.18 | 33 |
| A39 | No | 573962.17 | 5215322.42 | 33 |
| A39-E | No | 573992.63 | 5215322.80 | 33 |
| A39-S | No | 573962.55 | 5215291.96 | 33 |
| A39-W | No | 573931.70 | 5215322.04 | 33 |
| A39-N | No | 573961.79 | 5215352.89 | 33 |
| A40 | No | 573975.41 | 5215339.10 | 33 |
| A40-E | No | 574005.87 | 5215339.48 | 33 |
| A40-S | No | 573975.79 | 5215308.63 | 33 |
| A40-W | No | 573944.94 | 5215338.72 | 33 |
| A40-N | No | 573975.03 | 5215369.57 | 33 |
| A41 | No | 573986.48 | 5215353.17 | 33 |
| A41-E | No | 574016.95 | 5215353.55 | 33 |
| A41-S | No | 573986.86 | 5215322.70 | 33 |
| A41-W | No | 573956.01 | 5215352.79 | 33 |
| A41-N | No | 573986.10 | 5215383.64 | 33 |
| A42 | No | 573989.06 | 5215363.20 | 33 |
| A42-E | No | 574019.53 | 5215363.58 | 33 |
| A42-S | No | 573989.44 | 5215332.73 | 33 |
| A42-W | No | 573958.60 | 5215362.82 | 33 |
| A42-N | No | 573988.68 | 5215393.67 | 33 |
| A43 | No | 573993.12 | 5215386.38 | 33 |
| A43-E | No | 574023.58 | 5215386.76 | 33 |
| A43-S | No | 573993.50 | 5215355.91 | 33 |
| A43-W | No | 573962.65 | 5215386.00 | 33 |
| A43-N | No | 573992.74 | 5215416.84 | 33 |
| A44 | No | 573964.80 | 5215371.42 | 33 |
| A44-E | No | 573995.26 | 5215371.80 | 33 |
| A44-S | No | 573965.18 | 5215340.95 | 33 |
| A44-W | No | 573934.33 | 5215371.04 | 33 |
| A44-N | No | 573964.42 | 5215401.89 | 33 |
| A45 | No | 573956.23 | 5215362.82 | 33 |
| A45-E | No | 573986.70 | 5215363.20 | 33 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A45-S | No | 573956.61 | 5215332.35 | 33 |
| A45-W | No | 573925.76 | 5215362.44 | 33 |
| A45-N | No | 573955.85 | 5215393.29 | 33 |
| A46 | No | 573952.08 | 5215351.34 | 33 |
| A46-E | No | 573982.55 | 5215351.72 | 33 |
| A46-S | No | 573952.46 | 5215320.87 | 33 |
| A46-W | No | 573921.62 | 5215350.96 | 33 |
| A46-N | No | 573951.70 | 5215381.80 | 33 |
| A47 | No | 574043.59 | 5215594.39 | 33 |
| A47-E | No | 574074.06 | 5215594.77 | 33 |
| A47-S | No | 574043.97 | 5215563.92 | 33 |
| A47-W | No | 574013.12 | 5215594.01 | 33 |
| A47-N | No | 574043.21 | 5215624.86 | 33 |
| A55 | No | 573910.53 | 5216213.51 | 32 |
| A55-E | No | 573941.00 | 5216213.89 | 32 |
| A55-S | No | 573910.91 | 5216183.04 | 32 |
| A55-W | No | 573880.06 | 5216213.13 | 32 |
| A55-N | No | 573910.15 | 5216243.98 | 32 |
| A56 | No | 573890.11 | 5216175.80 | 32 |
| A56-E | No | 573920.57 | 5216176.18 | 32 |
| A56-S | No | 573890.49 | 5216145.33 | 32 |
| A56-W | No | 573859.64 | 5216175.42 | 32 |
| A56-N | No | 573889.73 | 5216206.26 | 32 |
| A57 | No | 573900.41 | 5216155.39 | 32 |
| A57-E | No | 573930.87 | 5216155.77 | 32 |
| A57-S | No | 573900.79 | 5216124.92 | 32 |
| A57-W | No | 573869.94 | 5216155.01 | 32 |
| A57-N | No | 573900.03 | 5216185.85 | 32 |
| A58 | No | 573920.85 | 5216126.10 | 32 |
| A58-E | No | 573951.31 | 5216126.48 | 32 |
| A58-S | No | 573921.22 | 5216095.64 | 32 |
| A58-W | No | 573890.38 | 5216125.72 | 32 |
| A58-N | No | 573920.47 | 5216156.57 | 32 |
| A59 | No | 573933.67 | 5216111.05 | 32 |
| A59-E | No | 573964.14 | 5216111.43 | 33 |
| A59-S | No | 573934.05 | 5216080.59 | 32 |
| A59-W | No | 573903.20 | 5216110.67 | 32 |
| A59-N | No | 573933.29 | 5216141.52 | 32 |
| A60 | No | 573945.56 | 5216092.76 | 32 |
| A60-E | No | 573976.03 | 5216093.14 | 33 |
| A60-S | No | 573945.94 | 5216062.30 | 32 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A60-W | No | 573915.09 | 5216092.38 | 32 |
| A60-N | No | 573945.18 | 5216123.23 | 32 |
| A61 | No | 573947.26 | 5216065.66 | 32 |
| A61-E | No | 573977.73 | 5216066.04 | 33 |
| A61-S | No | 573947.64 | 5216035.19 | 33 |
| A61-W | No | 573916.80 | 5216065.28 | 32 |
| A61-N | No | 573946.88 | 5216096.13 | 32 |
| A62 | No | 573965.06 | 5216047.88 | 33 |
| A62-E | No | 573995.53 | 5216048.26 | 33 |
| A62-S | No | 573965.44 | 5216017.41 | 33 |
| A62-W | No | 573934.59 | 5216047.50 | 32 |
| A62-N | No | 573964.68 | 5216078.35 | 33 |
| A63 | No | 573978.94 | 5216006.86 | 33 |
| A63-E | No | 574009.40 | 5216007.24 | 33 |
| A63-S | No | 573979.32 | 5215976.40 | 33 |
| A63-W | No | 573948.47 | 5216006.48 | 33 |
| A63-N | No | 573978.56 | 5216037.33 | 33 |
| A64 | No | 573974.20 | 5215980.23 | 33 |
| A64-E | No | 574004.66 | 5215980.61 | 33 |
| A64-S | No | 573974.58 | 5215949.76 | 33 |
| A64-W | No | 573943.73 | 5215979.85 | 33 |
| A64-N | No | 573973.82 | 5216010.70 | 33 |
| A65 | No | 573976.82 | 5215942.64 | 33 |
| A65-E | No | 574007.29 | 5215943.02 | 33 |
| A65-S | No | 573977.20 | 5215912.17 | 33 |
| A65-W | No | 573946.35 | 5215942.26 | 33 |
| A65-N | No | 573976.44 | 5215973.11 | 33 |
| A66 | No | 574002.48 | 5215927.06 | 33 |
| A66-E | No | 574032.95 | 5215927.44 | 33 |
| A66-S | No | 574002.86 | 5215896.59 | 33 |
| A66-W | No | 573972.02 | 5215926.68 | 33 |
| A66-N | No | 574002.10 | 5215957.53 | 33 |
| A68 | No | 574083.89 | 5215721.10 | 33 |
| A68-E | No | 574114.35 | 5215721.48 | 33 |
| A68-S | No | 574084.27 | 5215690.63 | 33 |
| A68-W | No | 574053.42 | 5215720.72 | 33 |
| A68-N | No | 574083.51 | 5215751.57 | 33 |
| A69 | No | 574043.70 | 5215760.79 | 33 |
| A69-E | No | 574074.17 | 5215761.17 | 33 |
| A69-S | No | 574044.08 | 5215730.33 | 33 |
| A69-W | No | 574013.23 | 5215760.41 | 33 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A69-N | No | 574043.32 | 5215791.26 | 33 |
| A70 | No | 574036.74 | 5215810.47 | 33 |
| A70-E | No | 574067.21 | 5215810.85 | 33 |
| A70-S | No | 574037.12 | 5215780.01 | 33 |
| A70-W | No | 574006.27 | 5215810.09 | 33 |
| A70-N | No | 574036.36 | 5215840.94 | 33 |
| A71 | No | 574336.46 | 5214645.31 | 26 |
| A71-E | No | 574366.93 | 5214645.69 | 25 |
| A71-S | No | 574336.84 | 5214614.84 | 26 |
| A71-W | No | 574305.99 | 5214644.92 | 26 |
| A71-N | No | 574336.08 | 5214675.77 | 26 |
| A72 | No | 574424.02 | 5214718.14 | 27 |
| A72-E | No | 574454.49 | 5214718.52 | 27 |
| A72-S | No | 574424.40 | 5214687.67 | 27 |
| A72-W | No | 574393.55 | 5214717.76 | 27 |
| A72-N | No | 574423.64 | 5214748.61 | 27 |
| A73 | No | 574470.90 | 5214729.61 | 26 |
| A73-E | No | 574501.36 | 5214729.99 | 26 |
| A73-S | No | 574471.28 | 5214699.14 | 27 |
| A73-W | No | 574440.43 | 5214729.23 | 27 |
| A73-N | No | 574470.51 | 5214760.08 | 27 |
| A74 | No | 574441.70 | 5214765.51 | 27 |
| A74-E | No | 574472.17 | 5214765.90 | 27 |
| A74-S | No | 574442.08 | 5214735.05 | 27 |
| A74-W | No | 574411.23 | 5214765.13 | 27 |
| A74-N | No | 574441.32 | 5214795.98 | 26 |
| A75 | No | 574403.44 | 5214774.07 | 27 |
| A75-E | No | 574433.91 | 5214774.45 | 26 |
| A75-S | No | 574403.82 | 5214743.60 | 27 |
| A75-W | No | 574372.97 | 5214773.68 | 28 |
| A75-N | No | 574403.06 | 5214804.53 | 26 |
| A76 | No | 574452.01 | 5214843.49 | 27 |
| A76-E | No | 574482.48 | 5214843.87 | 27 |
| A76-S | No | 574452.39 | 5214813.02 | 28 |
| A76-W | No | 574421.54 | 5214843.11 | 27 |
| A76-N | No | 574451.63 | 5214873.96 | 27 |
| A77 | No | 574649.37 | 5214842.84 | 29 |
| A77-E | No | 574679.84 | 5214843.22 | 30 |
| A77-S | No | 574649.75 | 5214812.37 | 31 |
| A77-W | No | 574618.90 | 5214842.45 | 31 |
| A77-N | No | 574648.99 | 5214873.30 | 29 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A78 | No | 574860.29 | 5215686.82 | 29 |
| A78-E | No | 574890.76 | 5215687.20 | 29 |
| A78-S | No | 574860.67 | 5215656.35 | 29 |
| A78-W | No | 574829.82 | 5215686.44 | 29 |
| A78-N | No | 574859.90 | 5215717.29 | 31 |
| A79 | No | 574922.13 | 5215678.13 | 33 |
| A79-E | No | 574952.60 | 5215678.52 | 32 |
| A79-S | No | 574922.52 | 5215647.67 | 31 |
| A79-W | No | 574891.67 | 5215677.75 | 29 |
| A79-N | No | 574921.75 | 5215708.60 | 33 |
| A80 | No | 574994.14 | 5215654.40 | 30 |
| A80-E | No | 575024.61 | 5215654.78 | 30 |
| A80-S | No | 574994.53 | 5215623.93 | 30 |
| A80-W | No | 574963.68 | 5215654.01 | 32 |
| A80-N | No | 574993.76 | 5215684.86 | 30 |
| A81 | No | 574924.04 | 5215716.01 | 31 |
| A81-E | No | 574954.51 | 5215716.40 | 32 |
| A81-S | No | 574924.43 | 5215685.55 | 33 |
| A81-W | No | 574893.57 | 5215715.63 | 29 |
| A81-N | No | 574923.66 | 5215746.48 | 31 |
| A82 | No | 574921.47 | 5215623.71 | 30 |
| A82-E | No | 574951.93 | 5215624.10 | 30 |
| A82-S | No | 574921.85 | 5215593.24 | 30 |
| A82-W | No | 574891.00 | 5215623.33 | 29 |
| A82-N | No | 574921.08 | 5215654.18 | 31 |
| A83 | No | 574848.22 | 5215638.00 | 29 |
| A83-E | No | 574878.69 | 5215638.38 | 29 |
| A83-S | No | 574848.60 | 5215607.53 | 29 |
| A83-W | No | 574817.75 | 5215637.61 | 29 |
| A83-N | No | 574847.83 | 5215668.47 | 29 |
| A84 | No | 574941.84 | 5215650.90 | 31 |
| A84-E | No | 574972.31 | 5215651.28 | 32 |
| A84-S | No | 574942.23 | 5215620.43 | 30 |
| A84-W | No | 574911.37 | 5215650.51 | 31 |
| A84-N | No | 574941.46 | 5215681.37 | 31 |
| A85 | No | 574912.89 | 5215733.82 | 31 |
| A85-E | No | 574943.35 | 5215734.21 | 32 |
| A85-S | No | 574913.27 | 5215703.36 | 33 |
| A85-W | No | 574882.42 | 5215733.44 | 31 |
| A85-N | No | 574912.50 | 5215764.29 | 31 |
| A86 | No | 574974.34 | 5215770.15 | 35 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A86-E | No | 575004.81 | 5215770.54 | 35 |
| A86-S | No | 574974.72 | 5215739.69 | 32 |
| A86-W | No | 574943.87 | 5215769.77 | 33 |
| A86-N | No | 574973.95 | 5215800.62 | 35 |
| A87 | No | 574900.43 | 5215833.92 | 34 |
| A87-E | No | 574930.89 | 5215834.31 | 34 |
| A87-S | No | 574900.81 | 5215803.45 | 34 |
| A87-W | No | 574869.96 | 5215833.54 | 34 |
| A87-N | No | 574900.04 | 5215864.39 | 33 |
| A88 | No | 575007.44 | 5215806.39 | 35 |
| A88-E | No | 575037.91 | 5215806.77 | 35 |
| A88-S | No | 575007.83 | 5215775.92 | 36 |
| A88-W | No | 574976.97 | 5215806.00 | 35 |
| A88-N | No | 575007.06 | 5215836.85 | 35 |
| A89 | No | 574914.97 | 5215850.14 | 33 |
| A89-E | No | 574945.44 | 5215850.52 | 33 |
| A89-S | No | 574915.36 | 5215819.67 | 34 |
| A89-W | No | 574884.51 | 5215849.76 | 34 |
| A89-N | No | 574914.59 | 5215880.61 | 33 |
| A90 | No | 574904.34 | 5215877.95 | 33 |
| A90-E | No | 574934.80 | 5215878.33 | 33 |
| A90-S | No | 574904.72 | 5215847.48 | 34 |
| A90-W | No | 574873.87 | 5215877.56 | 33 |
| A90-N | No | 574903.95 | 5215908.42 | 33 |
| A91 | No | 574918.03 | 5215894.77 | 33 |
| A91-E | No | 574948.50 | 5215895.16 | 33 |
| A91-S | No | 574918.42 | 5215864.31 | 33 |
| A91-W | No | 574887.57 | 5215894.39 | 33 |
| A91-N | No | 574917.65 | 5215925.24 | 33 |
| A92 | No | 574932.63 | 5215903.54 | 33 |
| A92-E | No | 574963.10 | 5215903.92 | 34 |
| A92-S | No | 574933.02 | 5215873.07 | 33 |
| A92-W | No | 574902.16 | 5215903.15 | 33 |
| A92-N | No | 574932.25 | 5215934.00 | 33 |
| A93 | No | 574955.34 | 5215912.45 | 33 |
| A93-E | No | 574985.81 | 5215912.84 | 34 |
| A93-S | No | 574955.73 | 5215881.98 | 33 |
| A93-W | No | 574924.87 | 5215912.07 | 33 |
| A93-N | No | 574954.96 | 5215942.92 | 33 |
| A94 | No | 574970.33 | 5215922.91 | 34 |
| A94-E | No | 575000.79 | 5215923.29 | 32 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A94-S | No | 574970.71 | 5215892.44 | 34 |
| A94-W | No | 574939.86 | 5215922.52 | 33 |
| A94-N | No | 574969.94 | 5215953.38 | 32 |
| A95 | No | 574981.36 | 5215930.93 | 34 |
| A95-E | No | 575011.83 | 5215931.31 | 32 |
| A95-S | No | 574981.75 | 5215900.46 | 34 |
| A95-W | No | 574950.90 | 5215930.54 | 33 |
| A95-N | No | 574980.98 | 5215961.39 | 32 |
| A96 | No | 575003.15 | 5215949.56 | 32 |
| A96-E | No | 575033.62 | 5215949.95 | 32 |
| A96-S | No | 575003.54 | 5215919.09 | 32 |
| A96-W | No | 574972.68 | 5215949.18 | 32 |
| A96-N | No | 575002.77 | 5215980.03 | 30 |
| A97 | No | 575054.11 | 5215883.67 | 34 |
| A97-E | No | 575084.58 | 5215884.06 | 33 |
| A97-S | No | 575054.50 | 5215853.20 | 34 |
| A97-W | No | 575023.64 | 5215883.29 | 34 |
| A97-N | No | 575053.72 | 5215914.14 | 32 |
| A98 | No | 574995.74 | 5215987.15 | 30 |
| A98-E | No | 575026.20 | 5215987.53 | 33 |
| A98-S | No | 574996.12 | 5215956.68 | 32 |
| A98-W | No | 574965.27 | 5215986.76 | 32 |
| A98-N | No | 574995.35 | 5216017.61 | 29 |
| A99 | No | 575053.41 | 5215978.19 | 34 |
| A99-E | No | 575083.88 | 5215978.58 | 34 |
| A99-S | No | 575053.80 | 5215947.72 | 34 |
| A99-W | No | 575022.95 | 5215977.81 | 30 |
| A99-N | No | 575053.03 | 5216008.66 | 34 |
| A100 | No | 574986.94 | 5216008.13 | 29 |
| A100-E | No | 575017.41 | 5216008.52 | 29 |
| A100-S | No | 574987.33 | 5215977.67 | 32 |
| A100-W | No | 574956.47 | 5216007.75 | 31 |
| A100-N | No | 574986.56 | 5216038.60 | 29 |
| A101 | No | 574979.59 | 5216051.77 | 29 |
| A101-E | No | 575010.05 | 5216052.15 | 32 |
| A101-S | No | 574979.97 | 5216021.30 | 29 |
| A101-W | No | 574949.12 | 5216051.38 | 29 |
| A101-N | No | 574979.20 | 5216082.23 | 29 |
| A102 | No | 574976.27 | 5216076.76 | 29 |
| A102-E | No | 575006.74 | 5216077.14 | 32 |
| A102-S | No | 574976.65 | 5216046.29 | 29 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A102-W | No | 574945.80 | 5216076.37 | 29 |
| A102-N | No | 574975.88 | 5216107.23 | 29 |
| A103 | No | 574975.12 | 5216100.90 | 29 |
| A103-E | No | 575005.59 | 5216101.28 | 29 |
| A103-S | No | 574975.50 | 5216070.43 | 29 |
| A103-W | No | 574944.65 | 5216100.51 | 29 |
| A103-N | No | 574974.74 | 5216131.36 | 29 |
| A104 | No | 574980.69 | 5216121.96 | 29 |
| A104-E | No | 575011.16 | 5216122.34 | 30 |
| A104-S | No | 574981.08 | 5216091.49 | 29 |
| A104-W | No | 574950.22 | 5216121.57 | 29 |
| A104-N | No | 574980.31 | 5216152.43 | 29 |
| A105 | No | 575016.60 | 5216102.34 | 30 |
| A105-E | No | 575047.07 | 5216102.72 | 30 |
| A105-S | No | 575016.98 | 5216071.87 | 32 |
| A105-W | No | 574986.13 | 5216101.95 | 29 |
| A105-N | No | 575016.21 | 5216132.81 | 30 |
| A106 | No | 575009.69 | 5216201.85 | 29 |
| A106-E | No | 575040.16 | 5216202.23 | 30 |
| A106-S | No | 575010.08 | 5216171.38 | 29 |
| A106-W | No | 574979.23 | 5216201.46 | 29 |
| A106-N | No | 575009.31 | 5216232.31 | 32 |
| A107 | No | 575000.35 | 5216178.12 | 29 |
| A107-E | No | 575030.82 | 5216178.51 | 30 |
| A107-S | No | 575000.73 | 5216147.66 | 29 |
| A107-W | No | 574969.88 | 5216177.74 | 29 |
| A107-N | No | 574999.96 | 5216208.59 | 29 |
| A108 | No | 574986.74 | 5216162.07 | 29 |
| A108-E | No | 575017.21 | 5216162.45 | 29 |
| A108-S | No | 574987.13 | 5216131.60 | 29 |
| A108-W | No | 574956.28 | 5216161.68 | 29 |
| A108-N | No | 574986.36 | 5216192.54 | 29 |
| A109 | No | 575027.95 | 5216158.34 | 30 |
| A109-E | No | 575058.42 | 5216158.72 | 30 |
| A109-S | No | 575028.33 | 5216127.87 | 30 |
| A109-W | No | 574997.48 | 5216157.95 | 29 |
| A109-N | No | 575027.56 | 5216188.81 | 29 |
| A110 | No | 575035.88 | 5216170.87 | 30 |
| A110-E | No | 575066.35 | 5216171.26 | 30 |
| A110-S | No | 575036.27 | 5216140.40 | 30 |
| A110-W | No | 575005.42 | 5216170.49 | 29 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A110-N | No | 575035.50 | 5216201.34 | 30 |
| A111 | No | 575054.51 | 5216207.86 | 30 |
| A111-E | No | 575084.97 | 5216208.24 | 32 |
| A111-S | No | 575054.89 | 5216177.39 | 30 |
| A111-W | No | 575024.04 | 5216207.47 | 29 |
| A111-N | No | 575054.12 | 5216238.33 | 32 |
| A112 | No | 575051.38 | 5216197.51 | 30 |
| A112-E | No | 575081.84 | 5216197.90 | 30 |
| A112-S | No | 575051.76 | 5216167.04 | 30 |
| A112-W | No | 575020.91 | 5216197.12 | 29 |
| A112-N | No | 575050.99 | 5216227.98 | 30 |
| A113 | No | 575045.81 | 5216189.76 | 30 |
| A113-E | No | 575076.28 | 5216190.14 | 30 |
| A113-S | No | 575046.19 | 5216159.29 | 30 |
| A113-W | No | 575015.34 | 5216189.37 | 29 |
| A113-N | No | 575045.42 | 5216220.22 | 30 |
| A114 | No | 575038.90 | 5216181.98 | 30 |
| A114-E | No | 575069.37 | 5216182.37 | 30 |
| A114-S | No | 575039.29 | 5216151.52 | 30 |
| A114-W | No | 575008.44 | 5216181.60 | 29 |
| A114-N | No | 575038.52 | 5216212.45 | 30 |
| A115 | No | 575077.19 | 5216208.00 | 30 |
| A115-E | No | 575107.65 | 5216208.39 | 32 |
| A115-S | No | 575077.57 | 5216177.54 | 30 |
| A115-W | No | 575046.72 | 5216207.62 | 30 |
| A115-N | No | 575076.80 | 5216238.47 | 30 |
| A116 | No | 575079.80 | 5216194.98 | 30 |
| A116-E | No | 575110.27 | 5216195.36 | 32 |
| A116-S | No | 575080.19 | 5216164.51 | 30 |
| A116-W | No | 575049.33 | 5216194.59 | 30 |
| A116-N | No | 575079.42 | 5216225.44 | 30 |
| A117 | No | 575113.00 | 5216196.41 | 32 |
| A117-E | No | 575143.46 | 5216196.79 | 33 |
| A117-S | No | 575113.38 | 5216165.94 | 31 |
| A117-W | No | 575082.53 | 5216196.02 | 30 |
| A117-N | No | 575112.61 | 5216226.87 | 34 |
| A118 | No | 575124.54 | 5216204.40 | 33 |
| A118-E | No | 575155.00 | 5216204.78 | 35 |
| A118-S | No | 575124.92 | 5216173.93 | 31 |
| A118-W | No | 575094.07 | 5216204.01 | 32 |
| A118-N | No | 575124.15 | 5216234.86 | 35 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A119 | No | 575138.01 | 5216208.32 | 33 |
| A119-E | No | 575168.48 | 5216208.70 | 35 |
| A119-S | No | 575138.40 | 5216177.85 | 31 |
| A119-W | No | 575107.55 | 5216207.93 | 32 |
| A119-N | No | 575137.63 | 5216238.78 | 37 |
| A120 | No | 575149.16 | 5216209.33 | 35 |
| A120-E | No | 575179.62 | 5216209.71 | 35 |
| A120-S | No | 575149.54 | 5216178.86 | 31 |
| A120-W | No | 575118.69 | 5216208.94 | 32 |
| A120-N | No | 575148.77 | 5216239.80 | 37 |
| A121 | No | 575169.22 | 5216209.90 | 36 |
| A121-E | No | 575199.69 | 5216210.28 | 37 |
| A121-S | No | 575169.61 | 5216179.43 | 31 |
| A121-W | No | 575138.75 | 5216209.51 | 35 |
| A121-N | No | 575168.84 | 5216240.36 | 37 |
| A122 | No | 575087.71 | 5216165.98 | 30 |
| A122-E | No | 575118.18 | 5216166.36 | 31 |
| A122-S | No | 575088.10 | 5216135.51 | 30 |
| A122-W | No | 575057.24 | 5216165.59 | 30 |
| A122-N | No | 575087.32 | 5216196.44 | 30 |
| A123 | No | 575113.47 | 5216170.01 | 30 |
| A123-E | No | 575143.94 | 5216170.39 | 31 |
| A123-S | No | 575113.86 | 5216139.54 | 30 |
| A123-W | No | 575083.00 | 5216169.62 | 30 |
| A123-N | No | 575113.09 | 5216200.48 | 32 |
| A124 | No | 575102.95 | 5216160.29 | 30 |
| A124-E | No | 575133.41 | 5216160.68 | 31 |
| A124-S | No | 575103.33 | 5216129.82 | 30 |
| A124-W | No | 575072.48 | 5216159.91 | 30 |
| A124-N | No | 575102.56 | 5216190.76 | 30 |
| A125 | No | 575086.43 | 5216144.68 | 30 |
| A125-E | No | 575116.89 | 5216145.07 | 30 |
| A125-S | No | 575086.81 | 5216114.22 | 30 |
| A125-W | No | 575055.96 | 5216144.30 | 30 |
| A125-N | No | 575086.04 | 5216175.15 | 30 |
| A126 | No | 575074.58 | 5216127.35 | 30 |
| A126-E | No | 575105.05 | 5216127.73 | 30 |
| A126-S | No | 575074.96 | 5216096.88 | 32 |
| A126-W | No | 575044.11 | 5216126.96 | 30 |
| A126-N | No | 575074.19 | 5216157.81 | 30 |
| A127 | No | 575006.10 | 5216280.96 | 33 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A127-E | No | 575036.57 | 5216281.34 | 32 |
| A127-S | No | 575006.49 | 5216250.49 | 34 |
| A127-W | No | 574975.64 | 5216280.57 | 33 |
| A127-N | No | 575005.72 | 5216311.42 | 29 |
| A128 | No | 575059.73 | 5216281.45 | 32 |
| A128-E | No | 575090.20 | 5216281.84 | 36 |
| A128-S | No | 575060.12 | 5216250.98 | 34 |
| A128-W | No | 575029.27 | 5216281.07 | 32 |
| A128-N | No | 575059.35 | 5216311.92 | 32 |
| A129 | No | 575070.38 | 5216324.81 | 32 |
| A129-E | No | 575100.85 | 5216325.20 | 36 |
| A129-S | No | 575070.77 | 5216294.34 | 34 |
| A129-W | No | 575039.91 | 5216324.43 | 32 |
| A129-N | No | 575070.00 | 5216355.28 | 36 |
| A130 | No | 575070.76 | 5216343.00 | 36 |
| A130-E | No | 575101.22 | 5216343.39 | 36 |
| A130-S | No | 575071.14 | 5216312.54 | 34 |
| A130-W | No | 575040.29 | 5216342.62 | 32 |
| A130-N | No | 575070.37 | 5216373.47 | 35 |
| A131 | No | 575298.94 | 5216311.20 | 38 |
| A131-E | No | 575329.41 | 5216311.59 | 38 |
| A131-S | No | 575299.33 | 5216280.73 | 38 |
| A131-W | No | 575268.47 | 5216310.81 | 38 |
| A131-N | No | 575298.55 | 5216341.67 | 38 |
| A132 | No | 574450.96 | 5217075.70 | 33 |
| A132-E | No | 574481.43 | 5217076.08 | 33 |
| A132-S | No | 574451.34 | 5217045.23 | 33 |
| A132-W | No | 574420.49 | 5217075.32 | 32 |
| A132-N | No | 574450.58 | 5217106.17 | 33 |
| A133 | No | 574437.55 | 5217132.24 | 32 |
| A133-E | No | 574468.02 | 5217132.63 | 33 |
| A133-S | No | 574437.93 | 5217101.78 | 32 |
| A133-W | No | 574407.08 | 5217131.86 | 32 |
| A133-N | No | 574437.17 | 5217162.71 | 32 |
| A134 | No | 574434.12 | 5217105.45 | 32 |
| A134-E | No | 574464.59 | 5217105.83 | 33 |
| A134-S | No | 574434.51 | 5217074.98 | 33 |
| A134-W | No | 574403.66 | 5217105.06 | 32 |
| A134-N | No | 574433.74 | 5217135.91 | 32 |
| A135 | No | 574409.47 | 5217093.44 | 32 |
| A135-E | No | 574439.94 | 5217093.82 | 33 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A135-S | No | 574409.85 | 5217062.97 | 32 |
| A135-W | No | 574379.00 | 5217093.06 | 32 |
| A135-N | No | 574409.09 | 5217123.91 | 32 |
| A136 | No | 574389.81 | 5217105.13 | 32 |
| A136-E | No | 574420.28 | 5217105.51 | 32 |
| A136-S | No | 574390.19 | 5217074.66 | 32 |
| A136-W | No | 574359.34 | 5217104.75 | 32 |
| A136-N | No | 574389.43 | 5217135.60 | 32 |
| A137 | No | 574418.30 | 5217144.17 | 32 |
| A137-E | No | 574448.77 | 5217144.55 | 32 |
| A137-S | No | 574418.68 | 5217113.70 | 32 |
| A137-W | No | 574387.83 | 5217143.78 | 32 |
| A137-N | No | 574417.92 | 5217174.63 | 32 |
| A138 | No | 574356.58 | 5217173.15 | 32 |
| A138-E | No | 574387.04 | 5217173.53 | 32 |
| A138-S | No | 574356.96 | 5217142.68 | 32 |
| A138-W | No | 574326.11 | 5217172.76 | 32 |
| A138-N | No | 574356.20 | 5217203.61 | 32 |
| A139 | No | 574343.65 | 5217146.23 | 32 |
| A139-E | No | 574374.11 | 5217146.61 | 32 |
| A139-S | No | 574344.03 | 5217115.76 | 32 |
| A139-W | No | 574313.18 | 5217145.85 | 32 |
| A139-N | No | 574343.26 | 5217176.70 | 32 |
| A140 | No | 574339.80 | 5217119.98 | 32 |
| A140-E | No | 574370.26 | 5217120.36 | 32 |
| A140-S | No | 574340.18 | 5217089.51 | 32 |
| A140-W | No | 574309.33 | 5217119.60 | 32 |
| A140-N | No | 574339.42 | 5217150.45 | 32 |
| A141 | No | 574493.43 | 5217232.22 | 32 |
| A141-E | No | 574523.90 | 5217232.60 | 33 |
| A141-S | No | 574493.81 | 5217201.75 | 32 |
| A141-W | No | 574462.96 | 5217231.84 | 32 |
| A141-N | No | 574493.05 | 5217262.69 | 32 |
| A142 | No | 574455.43 | 5217309.77 | 32 |
| A142-E | No | 574485.89 | 5217310.15 | 32 |
| A142-S | No | 574455.81 | 5217279.30 | 32 |
| A142-W | No | 574424.96 | 5217309.39 | 32 |
| A142-N | No | 574455.04 | 5217340.24 | 32 |
| A143 | No | 574343.57 | 5217222.20 | 32 |
| A143-E | No | 574374.03 | 5217222.58 | 31 |
| A143-S | No | 574343.95 | 5217191.73 | 32 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A143-W | No | 574313.10 | 5217221.82 | 32 |
| A143-N | No | 574343.19 | 5217252.67 | 32 |
| A144 | No | 574275.02 | 5217292.26 | 32 |
| A144-E | No | 574305.48 | 5217292.64 | 32 |
| A144-S | No | 574275.40 | 5217261.79 | 32 |
| A144-W | No | 574244.55 | 5217291.88 | 32 |
| A144-N | No | 574274.63 | 5217322.73 | 32 |
| A145 | No | 574247.51 | 5217347.05 | 31 |
| A145-E | No | 574277.98 | 5217347.43 | 32 |
| A145-S | No | 574247.89 | 5217316.58 | 31 |
| A145-W | No | 574217.04 | 5217346.67 | 31 |
| A145-N | No | 574247.13 | 5217377.52 | 31 |
| A146 | No | 574235.64 | 5217260.44 | 32 |
| A146-E | No | 574266.11 | 5217260.82 | 32 |
| A146-S | No | 574236.02 | 5217229.97 | 32 |
| A146-W | No | 574205.17 | 5217260.06 | 31 |
| A146-N | No | 574235.26 | 5217290.90 | 31 |
| A147 | No | 574223.21 | 5217281.30 | 31 |
| A147-E | No | 574253.67 | 5217281.68 | 32 |
| A147-S | No | 574223.59 | 5217250.83 | 32 |
| A147-W | No | 574192.74 | 5217280.92 | 31 |
| A147-N | No | 574222.83 | 5217311.77 | 31 |
| A148 | No | 574319.99 | 5217218.59 | 32 |
| A148-E | No | 574350.46 | 5217218.97 | 32 |
| A148-S | No | 574320.37 | 5217188.12 | 32 |
| A148-W | No | 574289.52 | 5217218.21 | 32 |
| A148-N | No | 574319.61 | 5217249.06 | 32 |
| A149 | No | 574293.99 | 5217227.51 | 32 |
| A149-E | No | 574324.45 | 5217227.89 | 32 |
| A149-S | No | 574294.37 | 5217197.04 | 32 |
| A149-W | No | 574263.52 | 5217227.12 | 32 |
| A149-N | No | 574293.60 | 5217257.97 | 32 |
| A150 | No | 574272.54 | 5217223.95 | 32 |
| A150-E | No | 574303.01 | 5217224.34 | 32 |
| A150-S | No | 574272.92 | 5217193.49 | 32 |
| A150-W | No | 574242.08 | 5217223.57 | 32 |
| A150-N | No | 574272.16 | 5217254.42 | 32 |
| A151 | No | 574207.73 | 5217291.66 | 31 |
| A151-E | No | 574238.20 | 5217292.04 | 31 |
| A151-S | No | 574208.11 | 5217261.19 | 31 |
| A151-W | No | 574177.27 | 5217291.28 | 31 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A151-N | No | 574207.35 | 5217322.13 | 31 |
| A166 | No | 574951.44 | 5217739.10 | 33 |
| A166-E | No | 574981.91 | 5217739.48 | 33 |
| A166-S | No | 574951.83 | 5217708.63 | 33 |
| A166-W | No | 574920.97 | 5217738.71 | 33 |
| A166-N | No | 574951.06 | 5217769.56 | 33 |
| A169 | No | 577273.49 | 5218307.23 | 39 |
| A169-E | No | 577303.95 | 5218307.62 | 39 |
| A169-S | No | 577273.88 | 5218276.76 | 39 |
| A169-W | No | 577243.02 | 5218306.83 | 39 |
| A169-N | No | 577273.09 | 5218337.69 | 39 |
| A170 | Yes | 577430.75 | 5217768.83 | 41 |
| A170-E | Yes | 577461.22 | 5217769.23 | 42 |
| A170-S | Yes | 577431.15 | 5217738.36 | 42 |
| A170-W | Yes | 577400.29 | 5217768.43 | 41 |
| A170-N | Yes | 577430.36 | 5217799.30 | 41 |
| A171 | No | 579265.26 | 5218098.36 | 43 |
| A171-E | No | 579295.73 | 5218098.76 | 42 |
| A171-S | No | 579265.67 | 5218067.89 | 42 |
| A171-W | No | 579234.79 | 5218097.95 | 43 |
| A171-N | No | 579264.85 | 5218128.82 | 43 |
| A177 | No | 581161.73 | 5219680.59 | 30 |
| A177-E | No | 581192.19 | 5219681.01 | 30 |
| A177-S | No | 581162.14 | 5219650.13 | 30 |
| A177-W | No | 581131.26 | 5219680.18 | 30 |
| A177-N | No | 581161.31 | 5219711.06 | 30 |
| A212 | No | 579715.72 | 5226801.23 | 32 |
| A212-E | No | 579746.19 | 5226801.64 | 32 |
| A212-S | No | 579716.13 | 5226770.76 | 32 |
| A212-W | No | 579685.25 | 5226800.82 | 32 |
| A212-N | No | 579715.31 | 5226831.69 | 33 |
| A262 | No | 582197.12 | 5226416.61 | 37 |
| A262-E | No | 582227.59 | 5226417.04 | 37 |
| A262-S | No | 582197.54 | 5226386.15 | 37 |
| A262-W | No | 582166.65 | 5226416.19 | 37 |
| A262-N | No | 582196.70 | 5226447.08 | 37 |
| A264 | No | 584162.60 | 5229456.16 | 43 |
| A264-E | No | 584193.07 | 5229456.59 | 43 |
| A264-S | No | 584163.03 | 5229425.69 | 43 |
| A264-W | No | 584132.13 | 5229455.72 | 43 |
| A264-N | No | 584162.16 | 5229486.62 | 43 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A265 | Yes | 583415.79 | 5231204.85 | 48 |
| A265-E | Yes | 583446.26 | 5231205.28 | 48 |
| A265-S | Yes | 583416.22 | 5231174.38 | 49 |
| A265-W | Yes | 583385.32 | 5231204.42 | 48 |
| A265-N | Yes | 583415.36 | 5231235.31 | 48 |
| A266 | No | 580319.28 | 5232293.72 | 34 |
| A266-E | No | 580349.75 | 5232294.13 | 34 |
| A266-S | No | 580319.70 | 5232263.25 | 34 |
| A266-W | No | 580288.82 | 5232293.31 | 34 |
| A266-N | No | 580318.87 | 5232324.19 | 34 |
| A267 | No | 581022.26 | 5230777.70 | 40 |
| A267-E | No | 581052.73 | 5230778.12 | 41 |
| A267-S | No | 581022.68 | 5230747.23 | 40 |
| A267-W | No | 580991.79 | 5230777.28 | 40 |
| A267-N | No | 581021.84 | 5230808.17 | 40 |
| A268 | Yes | 581768.01 | 5230219.58 | 47 |
| A268-E | Yes | 581828.96 | 5230220.00 | 48 |
| A268-S | Yes | 581768.43 | 5230158.63 | 48 |
| A268-W | Yes | 581707.07 | 5230219.16 | 47 |
| A268-N | Yes | 581767.59 | 5230280.53 | 47 |
| A269 | No | 581814.33 | 5228345.07 | 45 |
| A269-E | No | 581844.80 | 5228345.50 | 45 |
| A269-S | No | 581814.75 | 5228314.61 | 45 |
| A269-W | No | 581783.87 | 5228344.65 | 45 |
| A269-N | No | 581813.91 | 5228375.54 | 45 |
| A270 | No | 585108.44 | 5227544.15 | 44 |
| A270-E | No | 585138.91 | 5227544.59 | 44 |
| A270-S | No | 585108.88 | 5227513.68 | 44 |
| A270-W | No | 585077.97 | 5227543.71 | 44 |
| A270-N | No | 585108.00 | 5227574.62 | 44 |
| A272 | No | 578556.16 | 5216005.02 | 41 |
| A272-E | No | 578586.63 | 5216005.42 | 41 |
| A272-S | No | 578556.56 | 5215974.55 | 41 |
| A272-W | No | 578525.69 | 5216004.61 | 42 |
| A272-N | No | 578555.76 | 5216035.49 | 42 |
| A273 | No | 575853.28 | 5215654.58 | 45 |
| A273-E | No | 575883.75 | 5215654.97 | 45 |
| A273-S | No | 575853.67 | 5215624.11 | 45 |
| A273-W | No | 575822.82 | 5215654.19 | 45 |
| A273-N | No | 575852.90 | 5215685.05 | 45 |
| A274 | No | 575594.82 | 5215668.90 | 42 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A274-E | No | 575625.29 | 5215669.28 | 43 |
| A274-S | No | 575595.21 | 5215638.43 | 42 |
| A274-W | No | 575564.36 | 5215668.51 | 42 |
| A274-N | No | 575594.44 | 5215699.36 | 42 |
| A275 | No | 587932.95 | 5227703.98 | 33 |
| A275-E | No | 587963.42 | 5227704.43 | 32 |
| A275-S | No | 587933.41 | 5227673.51 | 32 |
| A275-W | No | 587902.49 | 5227703.53 | 33 |
| A275-N | No | 587932.50 | 5227734.45 | 33 |
| A277 | Yes | 581361.94 | 5229127.35 | 45 |
| A277-E | Yes | 581422.89 | 5229127.77 | 45 |
| A277-S | Yes | 581362.36 | 5229066.40 | 44 |
| A277-W | Yes | 581301.00 | 5229126.93 | 44 |
| A277-N | Yes | 581361.52 | 5229188.30 | 45 |
| A278 | No | 583744.33 | 5233094.76 | 36 |
| A278-E | No | 583774.80 | 5233095.19 | 36 |
| A278-S | No | 583744.77 | 5233064.29 | 36 |
| A278-W | No | 583713.87 | 5233094.32 | 36 |
| A278-N | No | 583743.90 | 5233125.22 | 35 |
| A279 | No | 584958.76 | 5230551.29 | 41 |
| A279-E | No | 584989.23 | 5230551.72 | 41 |
| A279-S | No | 584959.20 | 5230520.82 | 41 |
| A279-W | No | 584928.30 | 5230550.85 | 42 |
| A279-N | No | 584958.33 | 5230581.75 | 42 |
| A280 | No | 577317.58 | 5213740.93 | 39 |
| A280-E | No | 577348.05 | 5213741.33 | 39 |
| A280-S | No | 577317.98 | 5213710.47 | 39 |
| A280-W | No | 577287.11 | 5213740.54 | 40 |
| A280-N | No | 577317.18 | 5213771.40 | 40 |
| A284 | No | 579433.58 | 5221148.89 | 30 |
| A284-E | No | 579464.05 | 5221149.29 | 30 |
| A284-S | No | 579433.99 | 5221118.42 | 30 |
| A284-W | No | 579403.11 | 5221148.48 | 30 |
| A284-N | No | 579433.17 | 5221179.35 | 30 |
| A287 | No | 581018.95 | 5229570.32 | 43 |
| A287-E | No | 581049.42 | 5229570.74 | 43 |
| A287-S | No | 581019.37 | 5229539.85 | 43 |
| A287-W | No | 580988.49 | 5229569.90 | 43 |
| A287-N | No | 581018.54 | 5229600.78 | 43 |
| A288 | No | 580342.06 | 5229272.66 | 38 |
| A288-E | No | 580372.53 | 5229273.08 | 38 |

Table B-1.1: Sound Level Modeling Results Sorted by Receptor ID

| Receptor ID | Signed Waiver | Coordinates UTM NAD83 Zone 14N | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|-----------------------------------|------------|---|
| | | X (m) | Y (m) | |
| A288-S | No | 580342.47 | 5229242.19 | 38 |
| A288-W | No | 580311.59 | 5229272.25 | 38 |
| A288-N | No | 580341.65 | 5229303.13 | 38 |
| A316 | No | 584729.26 | 5233223.63 | 34 |
| A316-E | No | 584759.73 | 5233224.07 | 34 |
| A316-S | No | 584729.70 | 5233193.17 | 34 |
| A316-W | No | 584698.80 | 5233223.20 | 34 |
| A316-N | No | 584728.83 | 5233254.10 | 34 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A265-S | Yes | 583416.22 | 5231174.38 | 49 |
| A265-E | Yes | 583446.26 | 5231205.28 | 48 |
| A265 | Yes | 583415.79 | 5231204.85 | 48 |
| A265-W | Yes | 583385.32 | 5231204.42 | 48 |
| A268-S | Yes | 581768.43 | 5230158.63 | 48 |
| A268-E | Yes | 581828.96 | 5230220.00 | 48 |
| A265-N | Yes | 583415.36 | 5231235.31 | 48 |
| A268 | Yes | 581768.01 | 5230219.58 | 47 |
| A268-N | Yes | 581767.59 | 5230280.53 | 47 |
| A268-W | Yes | 581707.07 | 5230219.16 | 47 |
| A273-E | No | 575883.75 | 5215654.97 | 45 |
| A269-S | No | 581814.75 | 5228314.61 | 45 |
| A269-E | No | 581844.80 | 5228345.50 | 45 |
| A273-S | No | 575853.67 | 5215624.11 | 45 |
| A269 | No | 581814.33 | 5228345.07 | 45 |
| A269-W | No | 581783.87 | 5228344.65 | 45 |
| A273-N | No | 575852.90 | 5215685.05 | 45 |
| A273 | No | 575853.28 | 5215654.58 | 45 |
| A269-N | No | 581813.91 | 5228375.54 | 45 |
| A277-E | Yes | 581422.89 | 5229127.77 | 45 |
| A277-N | Yes | 581361.52 | 5229188.30 | 45 |
| A273-W | No | 575822.82 | 5215654.19 | 45 |
| A277 | Yes | 581361.94 | 5229127.35 | 45 |
| A270-N | No | 585108.00 | 5227574.62 | 44 |
| A277-S | Yes | 581362.36 | 5229066.40 | 44 |
| A13-E | No | 575662.33 | 5214523.14 | 44 |
| A270-W | No | 585077.97 | 5227543.71 | 44 |
| A277-W | Yes | 581301.00 | 5229126.93 | 44 |
| A13-S | No | 575632.25 | 5214492.29 | 44 |
| A13 | No | 575631.87 | 5214522.75 | 44 |
| A270 | No | 585108.44 | 5227544.15 | 44 |
| A13-N | No | 575631.48 | 5214553.22 | 44 |
| A270-E | No | 585138.91 | 5227544.59 | 44 |
| A13-W | No | 575601.40 | 5214522.36 | 44 |
| A270-S | No | 585108.88 | 5227513.68 | 44 |
| A287-E | No | 581049.42 | 5229570.74 | 43 |
| A171-W | No | 579234.79 | 5218097.95 | 43 |
| A264-S | No | 584163.03 | 5229425.69 | 43 |
| A264-W | No | 584132.13 | 5229455.72 | 43 |
| A287-S | No | 581019.37 | 5229539.85 | 43 |
| A287 | No | 581018.95 | 5229570.32 | 43 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A287-N | No | 581018.54 | 5229600.78 | 43 |
| A264 | No | 584162.60 | 5229456.16 | 43 |
| A171-N | No | 579264.85 | 5218128.82 | 43 |
| A264-N | No | 584162.16 | 5229486.62 | 43 |
| A264-E | No | 584193.07 | 5229456.59 | 43 |
| A274-E | No | 575625.29 | 5215669.28 | 43 |
| A171 | No | 579265.26 | 5218098.36 | 43 |
| A287-W | No | 580988.49 | 5229569.90 | 43 |
| A171-S | No | 579265.67 | 5218067.89 | 42 |
| A171-E | No | 579295.73 | 5218098.76 | 42 |
| A274 | No | 575594.82 | 5215668.90 | 42 |
| A274-S | No | 575595.21 | 5215638.43 | 42 |
| A274-N | No | 575594.44 | 5215699.36 | 42 |
| A274-W | No | 575564.36 | 5215668.51 | 42 |
| A170-S | Yes | 577431.15 | 5217738.36 | 42 |
| A170-E | Yes | 577461.22 | 5217769.23 | 42 |
| A279-W | No | 584928.30 | 5230550.85 | 42 |
| A272-W | No | 578525.69 | 5216004.61 | 42 |
| A272-N | No | 578555.76 | 5216035.49 | 42 |
| A279-N | No | 584958.33 | 5230581.75 | 42 |
| A170 | Yes | 577430.75 | 5217768.83 | 41 |
| A272 | No | 578556.16 | 5216005.02 | 41 |
| A279 | No | 584958.76 | 5230551.29 | 41 |
| A279-S | No | 584959.20 | 5230520.82 | 41 |
| A272-S | No | 578556.56 | 5215974.55 | 41 |
| A272-E | No | 578586.63 | 5216005.42 | 41 |
| A279-E | No | 584989.23 | 5230551.72 | 41 |
| A170-W | Yes | 577400.29 | 5217768.43 | 41 |
| A170-N | Yes | 577430.36 | 5217799.30 | 41 |
| A267-E | No | 581052.73 | 5230778.12 | 41 |
| A267-S | No | 581022.68 | 5230747.23 | 40 |
| A267 | No | 581022.26 | 5230777.70 | 40 |
| A267-N | No | 581021.84 | 5230808.17 | 40 |
| A267-W | No | 580991.79 | 5230777.28 | 40 |
| A280-W | No | 577287.11 | 5213740.54 | 40 |
| A8-E | No | 575070.97 | 5213810.67 | 40 |
| A280-N | No | 577317.18 | 5213771.40 | 40 |
| A280 | No | 577317.58 | 5213740.93 | 39 |
| A8-N | No | 575040.12 | 5213840.75 | 39 |
| A8 | No | 575040.50 | 5213810.28 | 39 |
| A280-S | No | 577317.98 | 5213710.47 | 39 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A280-E | No | 577348.05 | 5213741.33 | 39 |
| A8-S | No | 575040.89 | 5213779.82 | 39 |
| A8-W | No | 575010.03 | 5213809.90 | 39 |
| A169-E | No | 577303.95 | 5218307.62 | 39 |
| A169-S | No | 577273.88 | 5218276.76 | 39 |
| A169 | No | 577273.49 | 5218307.23 | 39 |
| A169-N | No | 577273.09 | 5218337.69 | 39 |
| A169-W | No | 577243.02 | 5218306.83 | 39 |
| A288-E | No | 580372.53 | 5229273.08 | 38 |
| A131-E | No | 575329.41 | 5216311.59 | 38 |
| A288 | No | 580342.06 | 5229272.66 | 38 |
| A288-N | No | 580341.65 | 5229303.13 | 38 |
| A131-S | No | 575299.33 | 5216280.73 | 38 |
| A288-S | No | 580342.47 | 5229242.19 | 38 |
| A131 | No | 575298.94 | 5216311.20 | 38 |
| A288-W | No | 580311.59 | 5229272.25 | 38 |
| A131-N | No | 575298.55 | 5216341.67 | 38 |
| A131-W | No | 575268.47 | 5216310.81 | 38 |
| A121-E | No | 575199.69 | 5216210.28 | 37 |
| A121-N | No | 575168.84 | 5216240.36 | 37 |
| A262-N | No | 582196.70 | 5226447.08 | 37 |
| A120-N | No | 575148.77 | 5216239.80 | 37 |
| A262-E | No | 582227.59 | 5226417.04 | 37 |
| A262 | No | 582197.12 | 5226416.61 | 37 |
| A262-W | No | 582166.65 | 5226416.19 | 37 |
| A119-N | No | 575137.63 | 5216238.78 | 37 |
| A262-S | No | 582197.54 | 5226386.15 | 37 |
| A129-E | No | 575100.85 | 5216325.20 | 36 |
| A128-E | No | 575090.20 | 5216281.84 | 36 |
| A130-E | No | 575101.22 | 5216343.39 | 36 |
| A130 | No | 575070.76 | 5216343.00 | 36 |
| A278-S | No | 583744.77 | 5233064.29 | 36 |
| A121 | No | 575169.22 | 5216209.90 | 36 |
| A129-N | No | 575070.00 | 5216355.28 | 36 |
| A88-S | No | 575007.83 | 5215775.92 | 36 |
| A278-W | No | 583713.87 | 5233094.32 | 36 |
| A278 | No | 583744.33 | 5233094.76 | 36 |
| A278-E | No | 583774.80 | 5233095.19 | 36 |
| A118-N | No | 575124.15 | 5216234.86 | 35 |
| A88-E | No | 575037.91 | 5215806.77 | 35 |
| A86-E | No | 575004.81 | 5215770.54 | 35 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A278-N | No | 583743.90 | 5233125.22 | 35 |
| A120-E | No | 575179.62 | 5216209.71 | 35 |
| A130-N | No | 575070.37 | 5216373.47 | 35 |
| A119-E | No | 575168.48 | 5216208.70 | 35 |
| A86 | No | 574974.34 | 5215770.15 | 35 |
| A88 | No | 575007.44 | 5215806.39 | 35 |
| A118-E | No | 575155.00 | 5216204.78 | 35 |
| A88-W | No | 574976.97 | 5215806.00 | 35 |
| A120 | No | 575149.16 | 5216209.33 | 35 |
| A86-N | No | 574973.95 | 5215800.62 | 35 |
| A121-W | No | 575138.75 | 5216209.51 | 35 |
| A88-N | No | 575007.06 | 5215836.85 | 35 |
| A117-N | No | 575112.61 | 5216226.87 | 34 |
| A97 | No | 575054.11 | 5215883.67 | 34 |
| A97-S | No | 575054.50 | 5215853.20 | 34 |
| A87-E | No | 574930.89 | 5215834.31 | 34 |
| A97-W | No | 575023.64 | 5215883.29 | 34 |
| A89-S | No | 574915.36 | 5215819.67 | 34 |
| A316-S | No | 584729.70 | 5233193.17 | 34 |
| A128-S | No | 575060.12 | 5216250.98 | 34 |
| A129-S | No | 575070.77 | 5216294.34 | 34 |
| A90-S | No | 574904.72 | 5215847.48 | 34 |
| A87 | No | 574900.43 | 5215833.92 | 34 |
| A87-S | No | 574900.81 | 5215803.45 | 34 |
| A316-W | No | 584698.80 | 5233223.20 | 34 |
| A316 | No | 584729.26 | 5233223.63 | 34 |
| A99-E | No | 575083.88 | 5215978.58 | 34 |
| A130-S | No | 575071.14 | 5216312.54 | 34 |
| A89-W | No | 574884.51 | 5215849.76 | 34 |
| A316-E | No | 584759.73 | 5233224.07 | 34 |
| A316-N | No | 584728.83 | 5233254.10 | 34 |
| A99-S | No | 575053.80 | 5215947.72 | 34 |
| A93-E | No | 574985.81 | 5215912.84 | 34 |
| A87-W | No | 574869.96 | 5215833.54 | 34 |
| A266-E | No | 580349.75 | 5232294.13 | 34 |
| A266-S | No | 580319.70 | 5232263.25 | 34 |
| A99 | No | 575053.41 | 5215978.19 | 34 |
| A95-S | No | 574981.75 | 5215900.46 | 34 |
| A95 | No | 574981.36 | 5215930.93 | 34 |
| A94-S | No | 574970.71 | 5215892.44 | 34 |
| A266 | No | 580319.28 | 5232293.72 | 34 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A266-N | No | 580318.87 | 5232324.19 | 34 |
| A99-N | No | 575053.03 | 5216008.66 | 34 |
| A94 | No | 574970.33 | 5215922.91 | 34 |
| A92-E | No | 574963.10 | 5215903.92 | 34 |
| A127-S | No | 575006.49 | 5216250.49 | 34 |
| A266-W | No | 580288.82 | 5232293.31 | 34 |
| A98-E | No | 575026.20 | 5215987.53 | 33 |
| A93-S | No | 574955.73 | 5215881.98 | 33 |
| A93 | No | 574955.34 | 5215912.45 | 33 |
| A93-N | No | 574954.96 | 5215942.92 | 33 |
| A91-E | No | 574948.50 | 5215895.16 | 33 |
| A95-W | No | 574950.90 | 5215930.54 | 33 |
| A127 | No | 575006.10 | 5216280.96 | 33 |
| A89-E | No | 574945.44 | 5215850.52 | 33 |
| A86-W | No | 574943.87 | 5215769.77 | 33 |
| A166-E | No | 574981.91 | 5217739.48 | 33 |
| A166-S | No | 574951.83 | 5217708.63 | 33 |
| A3-N | No | 575703.66 | 5212262.06 | 33 |
| A94-W | No | 574939.86 | 5215922.52 | 33 |
| A90-E | No | 574934.80 | 5215878.33 | 33 |
| A92 | No | 574932.63 | 5215903.54 | 33 |
| A92-S | No | 574933.02 | 5215873.07 | 33 |
| A92-N | No | 574932.25 | 5215934.00 | 33 |
| A166 | No | 574951.44 | 5217739.10 | 33 |
| A9-W | No | 578874.77 | 5213921.02 | 33 |
| A166-N | No | 574951.06 | 5217769.56 | 33 |
| A9-N | No | 578904.83 | 5213951.89 | 33 |
| A3-E | No | 575734.51 | 5212231.98 | 33 |
| A9 | No | 578905.24 | 5213921.42 | 33 |
| A93-W | No | 574924.87 | 5215912.07 | 33 |
| A127-W | No | 574975.64 | 5216280.57 | 33 |
| A79-N | No | 574921.75 | 5215708.60 | 33 |
| A81-S | No | 574924.43 | 5215685.55 | 33 |
| A91 | No | 574918.03 | 5215894.77 | 33 |
| A91-S | No | 574918.42 | 5215864.31 | 33 |
| A91-N | No | 574917.65 | 5215925.24 | 33 |
| A79 | No | 574922.13 | 5215678.13 | 33 |
| A166-W | No | 574920.97 | 5217738.71 | 33 |
| A3 | No | 575704.05 | 5212231.60 | 33 |
| A68-E | No | 574114.35 | 5215721.48 | 33 |
| A3-W | No | 575673.58 | 5212231.21 | 33 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A9-E | No | 578935.70 | 5213921.83 | 33 |
| A9-S | No | 578905.64 | 5213890.96 | 33 |
| A89 | No | 574914.97 | 5215850.14 | 33 |
| A85-S | No | 574913.27 | 5215703.36 | 33 |
| A89-N | No | 574914.59 | 5215880.61 | 33 |
| A90 | No | 574904.34 | 5215877.95 | 33 |
| A90-N | No | 574903.95 | 5215908.42 | 33 |
| A68 | No | 574083.89 | 5215721.10 | 33 |
| A68-N | No | 574083.51 | 5215751.57 | 33 |
| A69-E | No | 574074.17 | 5215761.17 | 33 |
| A68-S | No | 574084.27 | 5215690.63 | 33 |
| A3-S | No | 575704.43 | 5212201.13 | 33 |
| A87-N | No | 574900.04 | 5215864.39 | 33 |
| A92-W | No | 574902.16 | 5215903.15 | 33 |
| A68-W | No | 574053.42 | 5215720.72 | 33 |
| A70-E | No | 574067.21 | 5215810.85 | 33 |
| A47-E | No | 574074.06 | 5215594.77 | 33 |
| A69-S | No | 574044.08 | 5215730.33 | 33 |
| A69 | No | 574043.70 | 5215760.79 | 33 |
| A69-N | No | 574043.32 | 5215791.26 | 33 |
| A70-S | No | 574037.12 | 5215780.01 | 33 |
| A47 | No | 574043.59 | 5215594.39 | 33 |
| A117-E | No | 575143.46 | 5216196.79 | 33 |
| A91-W | No | 574887.57 | 5215894.39 | 33 |
| A47-N | No | 574043.21 | 5215624.86 | 33 |
| A70 | No | 574036.74 | 5215810.47 | 33 |
| A70-N | No | 574036.36 | 5215840.94 | 33 |
| A47-S | No | 574043.97 | 5215563.92 | 33 |
| A43-E | No | 574023.58 | 5215386.76 | 33 |
| A42-E | No | 574019.53 | 5215363.58 | 33 |
| A69-W | No | 574013.23 | 5215760.41 | 33 |
| A41-E | No | 574016.95 | 5215353.55 | 33 |
| A90-W | No | 574873.87 | 5215877.56 | 33 |
| A40-E | No | 574005.87 | 5215339.48 | 33 |
| A47-W | No | 574013.12 | 5215594.01 | 33 |
| A66-E | No | 574032.95 | 5215927.44 | 33 |
| A70-W | No | 574006.27 | 5215810.09 | 33 |
| A39-E | No | 573992.63 | 5215322.80 | 33 |
| A41 | No | 573986.48 | 5215353.17 | 33 |
| A41-S | No | 573986.86 | 5215322.70 | 33 |
| A42 | No | 573989.06 | 5215363.20 | 33 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A42-S | No | 573989.44 | 5215332.73 | 33 |
| A43 | No | 573993.12 | 5215386.38 | 33 |
| A43-S | No | 573993.50 | 5215355.91 | 33 |
| A44-E | No | 573995.26 | 5215371.80 | 33 |
| A43-N | No | 573992.74 | 5215416.84 | 33 |
| A38-E | No | 573979.03 | 5215296.09 | 33 |
| A40-S | No | 573975.79 | 5215308.63 | 33 |
| A41-N | No | 573986.10 | 5215383.64 | 33 |
| A42-N | No | 573988.68 | 5215393.67 | 33 |
| A45-E | No | 573986.70 | 5215363.20 | 33 |
| A46-E | No | 573982.55 | 5215351.72 | 33 |
| A65-E | No | 574007.29 | 5215943.02 | 33 |
| A66 | No | 574002.48 | 5215927.06 | 33 |
| A66-S | No | 574002.86 | 5215896.59 | 33 |
| A40 | No | 573975.41 | 5215339.10 | 33 |
| A40-N | No | 573975.03 | 5215369.57 | 33 |
| A66-N | No | 574002.10 | 5215957.53 | 33 |
| A63-E | No | 574009.40 | 5216007.24 | 33 |
| A64-E | No | 574004.66 | 5215980.61 | 33 |
| A37-E | No | 573965.25 | 5215282.59 | 33 |
| A39 | No | 573962.17 | 5215322.42 | 33 |
| A39-S | No | 573962.55 | 5215291.96 | 33 |
| A39-N | No | 573961.79 | 5215352.89 | 33 |
| A44 | No | 573964.80 | 5215371.42 | 33 |
| A44-S | No | 573965.18 | 5215340.95 | 33 |
| A119 | No | 575138.01 | 5216208.32 | 33 |
| A132-E | No | 574481.43 | 5217076.08 | 33 |
| A36-E | No | 573949.84 | 5215256.22 | 33 |
| A38-S | No | 573948.94 | 5215265.25 | 33 |
| A41-W | No | 573956.01 | 5215352.79 | 33 |
| A42-W | No | 573958.60 | 5215362.82 | 33 |
| A43-W | No | 573962.65 | 5215386.00 | 33 |
| A44-N | No | 573964.42 | 5215401.89 | 33 |
| A45 | No | 573956.23 | 5215362.82 | 33 |
| A45-S | No | 573956.61 | 5215332.35 | 33 |
| A46-S | No | 573952.46 | 5215320.87 | 33 |
| A62-E | No | 573995.53 | 5216048.26 | 33 |
| A63-S | No | 573979.32 | 5215976.40 | 33 |
| A64-S | No | 573974.58 | 5215949.76 | 33 |
| A65 | No | 573976.82 | 5215942.64 | 33 |
| A65-S | No | 573977.20 | 5215912.17 | 33 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A66-W | No | 573972.02 | 5215926.68 | 33 |
| A132-S | No | 574451.34 | 5217045.23 | 33 |
| A38 | No | 573948.57 | 5215295.71 | 33 |
| A38-N | No | 573948.19 | 5215326.18 | 33 |
| A45-N | No | 573955.85 | 5215393.29 | 33 |
| A46 | No | 573952.08 | 5215351.34 | 33 |
| A46-N | No | 573951.70 | 5215381.80 | 33 |
| A40-W | No | 573944.94 | 5215338.72 | 33 |
| A63 | No | 573978.94 | 5216006.86 | 33 |
| A64 | No | 573974.20 | 5215980.23 | 33 |
| A65-N | No | 573976.44 | 5215973.11 | 33 |
| A35-E | No | 573932.66 | 5215240.63 | 33 |
| A35-S | No | 573902.57 | 5215209.78 | 33 |
| A37 | No | 573934.78 | 5215282.21 | 33 |
| A37-S | No | 573935.16 | 5215251.74 | 33 |
| A37-N | No | 573934.41 | 5215312.67 | 33 |
| A63-N | No | 573978.56 | 5216037.33 | 33 |
| A64-N | No | 573973.82 | 5216010.70 | 33 |
| A275-W | No | 587902.49 | 5227703.53 | 33 |
| A212-N | No | 579715.31 | 5226831.69 | 33 |
| A97-E | No | 575084.58 | 5215884.06 | 33 |
| A118 | No | 575124.54 | 5216204.40 | 33 |
| A132 | No | 574450.96 | 5217075.70 | 33 |
| A134-E | No | 574464.59 | 5217105.83 | 33 |
| A39-W | No | 573931.70 | 5215322.04 | 33 |
| A44-W | No | 573934.33 | 5215371.04 | 33 |
| A60-E | No | 573976.03 | 5216093.14 | 33 |
| A61-E | No | 573977.73 | 5216066.04 | 33 |
| A62-S | No | 573965.44 | 5216017.41 | 33 |
| A65-W | No | 573946.35 | 5215942.26 | 33 |
| A35 | No | 573902.19 | 5215240.25 | 33 |
| A62 | No | 573965.06 | 5216047.88 | 33 |
| A132-N | No | 574450.58 | 5217106.17 | 33 |
| A133-E | No | 574468.02 | 5217132.63 | 33 |
| A134-S | No | 574434.51 | 5217074.98 | 33 |
| A45-W | No | 573925.76 | 5215362.44 | 33 |
| A36 | No | 573919.37 | 5215255.84 | 33 |
| A36-S | No | 573919.75 | 5215225.37 | 33 |
| A36-N | No | 573918.99 | 5215286.31 | 33 |
| A38-W | No | 573918.10 | 5215295.33 | 33 |
| A46-W | No | 573921.62 | 5215350.96 | 33 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A62-N | No | 573964.68 | 5216078.35 | 33 |
| A135-E | No | 574439.94 | 5217093.82 | 33 |
| A141-E | No | 574523.90 | 5217232.60 | 33 |
| A34-E | No | 573886.09 | 5215220.46 | 33 |
| A36-W | No | 573888.91 | 5215255.46 | 33 |
| A37-W | No | 573904.32 | 5215281.83 | 33 |
| A59-E | No | 573964.14 | 5216111.43 | 33 |
| A61-S | No | 573947.64 | 5216035.19 | 33 |
| A63-W | No | 573948.47 | 5216006.48 | 33 |
| A64-W | No | 573943.73 | 5215979.85 | 33 |
| A275-N | No | 587932.50 | 5227734.45 | 33 |
| A275 | No | 587932.95 | 5227703.98 | 33 |
| A116-E | No | 575110.27 | 5216195.36 | 32 |
| A117 | No | 575113.00 | 5216196.41 | 32 |
| A120-W | No | 575118.69 | 5216208.94 | 32 |
| A123-N | No | 575113.09 | 5216200.48 | 32 |
| A132-W | No | 574420.49 | 5217075.32 | 32 |
| A133-S | No | 574437.93 | 5217101.78 | 32 |
| A35-N | No | 573901.81 | 5215270.72 | 32 |
| A60-S | No | 573945.94 | 5216062.30 | 32 |
| A61 | No | 573947.26 | 5216065.66 | 32 |
| A134 | No | 574434.12 | 5217105.45 | 32 |
| A141-S | No | 574493.81 | 5217201.75 | 32 |
| A135-S | No | 574409.85 | 5217062.97 | 32 |
| A61-N | No | 573946.88 | 5216096.13 | 32 |
| A133 | No | 574437.55 | 5217132.24 | 32 |
| A137-E | No | 574448.77 | 5217144.55 | 32 |
| A35-W | No | 573871.72 | 5215239.87 | 32 |
| A58-E | No | 573951.31 | 5216126.48 | 32 |
| A60 | No | 573945.56 | 5216092.76 | 32 |
| A62-W | No | 573934.59 | 5216047.50 | 32 |
| A136-E | No | 574420.28 | 5217105.51 | 32 |
| A134-N | No | 574433.74 | 5217135.91 | 32 |
| A135 | No | 574409.47 | 5217093.44 | 32 |
| A141 | No | 574493.43 | 5217232.22 | 32 |
| A33-E | No | 573857.72 | 5215213.60 | 32 |
| A34 | No | 573855.62 | 5215220.08 | 32 |
| A34-S | No | 573856.00 | 5215189.61 | 32 |
| A34-N | No | 573855.24 | 5215250.55 | 32 |
| A59-S | No | 573934.05 | 5216080.59 | 32 |
| A60-N | No | 573945.18 | 5216123.23 | 32 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A275-S | No | 587933.41 | 5227673.51 | 32 |
| A212-W | No | 579685.25 | 5226800.82 | 32 |
| A115-E | No | 575107.65 | 5216208.39 | 32 |
| A119-W | No | 575107.55 | 5216207.93 | 32 |
| A97-N | No | 575053.72 | 5215914.14 | 32 |
| A136-S | No | 574390.19 | 5217074.66 | 32 |
| A137-S | No | 574418.68 | 5217113.70 | 32 |
| A59 | No | 573933.67 | 5216111.05 | 32 |
| A59-N | No | 573933.29 | 5216141.52 | 32 |
| A61-W | No | 573916.80 | 5216065.28 | 32 |
| A57-E | No | 573930.87 | 5216155.77 | 32 |
| A58-S | No | 573921.22 | 5216095.64 | 32 |
| A133-N | No | 574437.17 | 5217162.71 | 32 |
| A134-W | No | 574403.66 | 5217105.06 | 32 |
| A135-N | No | 574409.09 | 5217123.91 | 32 |
| A137 | No | 574418.30 | 5217144.17 | 32 |
| A141-N | No | 574493.05 | 5217262.69 | 32 |
| A55-E | No | 573941.00 | 5216213.89 | 32 |
| A58 | No | 573920.85 | 5216126.10 | 32 |
| A60-W | No | 573915.09 | 5216092.38 | 32 |
| A133-W | No | 574407.08 | 5217131.86 | 32 |
| A136 | No | 574389.81 | 5217105.13 | 32 |
| A141-W | No | 574462.96 | 5217231.84 | 32 |
| A33 | No | 573827.25 | 5215213.23 | 32 |
| A33-S | No | 573827.63 | 5215182.76 | 32 |
| A33-N | No | 573826.87 | 5215243.69 | 32 |
| A56-E | No | 573920.57 | 5216176.18 | 32 |
| A58-N | No | 573920.47 | 5216156.57 | 32 |
| A34-W | No | 573825.15 | 5215219.70 | 32 |
| A275-E | No | 587963.42 | 5227704.43 | 32 |
| A212-E | No | 579746.19 | 5226801.64 | 32 |
| A118-W | No | 575094.07 | 5216204.01 | 32 |
| A135-W | No | 574379.00 | 5217093.06 | 32 |
| A57-S | No | 573900.79 | 5216124.92 | 32 |
| A59-W | No | 573903.20 | 5216110.67 | 32 |
| A55-S | No | 573910.91 | 5216183.04 | 32 |
| A137-N | No | 574417.92 | 5217174.63 | 32 |
| A136-N | No | 574389.43 | 5217135.60 | 32 |
| A137-W | No | 574387.83 | 5217143.78 | 32 |
| A57 | No | 573900.41 | 5216155.39 | 32 |
| A140-E | No | 574370.26 | 5217120.36 | 32 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A142-E | No | 574485.89 | 5217310.15 | 32 |
| A55 | No | 573910.53 | 5216213.51 | 32 |
| A58-W | No | 573890.38 | 5216125.72 | 32 |
| A136-W | No | 574359.34 | 5217104.75 | 32 |
| A55-N | No | 573910.15 | 5216243.98 | 32 |
| A56 | No | 573890.11 | 5216175.80 | 32 |
| A56-S | No | 573890.49 | 5216145.33 | 32 |
| A57-N | No | 573900.03 | 5216185.85 | 32 |
| A33-W | No | 573796.79 | 5215212.85 | 32 |
| A111-E | No | 575084.97 | 5216208.24 | 32 |
| A96-E | No | 575033.62 | 5215949.95 | 32 |
| A139-E | No | 574374.11 | 5217146.61 | 32 |
| A140-S | No | 574340.18 | 5217089.51 | 32 |
| A142-S | No | 574455.81 | 5217279.30 | 32 |
| A56-N | No | 573889.73 | 5216206.26 | 32 |
| A138-E | No | 574387.04 | 5217173.53 | 32 |
| A138-S | No | 574356.96 | 5217142.68 | 32 |
| A139-S | No | 574344.03 | 5217115.76 | 32 |
| A140 | No | 574339.80 | 5217119.98 | 32 |
| A142 | No | 574455.43 | 5217309.77 | 32 |
| A55-W | No | 573880.06 | 5216213.13 | 32 |
| A57-W | No | 573869.94 | 5216155.01 | 32 |
| A212 | No | 579715.72 | 5226801.23 | 32 |
| A129 | No | 575070.38 | 5216324.81 | 32 |
| A56-W | No | 573859.64 | 5216175.42 | 32 |
| A139 | No | 574343.65 | 5217146.23 | 32 |
| A138 | No | 574356.58 | 5217173.15 | 32 |
| A140-N | No | 574339.42 | 5217150.45 | 32 |
| A142-N | No | 574455.04 | 5217340.24 | 32 |
| A142-W | No | 574424.96 | 5217309.39 | 32 |
| A139-N | No | 574343.26 | 5217176.70 | 32 |
| A140-W | No | 574309.33 | 5217119.60 | 32 |
| A138-N | No | 574356.20 | 5217203.61 | 32 |
| A143-S | No | 574343.95 | 5217191.73 | 32 |
| A212-S | No | 579716.13 | 5226770.76 | 32 |
| A95-E | No | 575011.83 | 5215931.31 | 32 |
| A96-S | No | 575003.54 | 5215919.09 | 32 |
| A126-S | No | 575074.96 | 5216096.88 | 32 |
| A139-W | No | 574313.18 | 5217145.85 | 32 |
| A138-W | No | 574326.11 | 5217172.76 | 32 |
| A148-E | No | 574350.46 | 5217218.97 | 32 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A143 | No | 574343.57 | 5217222.20 | 32 |
| A148-S | No | 574320.37 | 5217188.12 | 32 |
| A111-N | No | 575054.12 | 5216238.33 | 32 |
| A94-E | No | 575000.79 | 5215923.29 | 32 |
| A96 | No | 575003.15 | 5215949.56 | 32 |
| A128 | No | 575059.73 | 5216281.45 | 32 |
| A98-S | No | 574996.12 | 5215956.68 | 32 |
| A130-W | No | 575040.29 | 5216342.62 | 32 |
| A143-W | No | 574313.10 | 5217221.82 | 32 |
| A143-N | No | 574343.19 | 5217252.67 | 32 |
| A148 | No | 574319.99 | 5217218.59 | 32 |
| A149-E | No | 574324.45 | 5217227.89 | 32 |
| A149-S | No | 574294.37 | 5217197.04 | 32 |
| A148-N | No | 574319.61 | 5217249.06 | 32 |
| A150-E | No | 574303.01 | 5217224.34 | 32 |
| A128-N | No | 575059.35 | 5216311.92 | 32 |
| A95-N | No | 574980.98 | 5215961.39 | 32 |
| A86-S | No | 574974.72 | 5215739.69 | 32 |
| A84-E | No | 574972.31 | 5215651.28 | 32 |
| A148-W | No | 574289.52 | 5217218.21 | 32 |
| A149 | No | 574293.99 | 5217227.51 | 32 |
| A150-S | No | 574272.92 | 5217193.49 | 32 |
| A149-N | No | 574293.60 | 5217257.97 | 32 |
| A150 | No | 574272.54 | 5217223.95 | 32 |
| A127-E | No | 575036.57 | 5216281.34 | 32 |
| A96-W | No | 574972.68 | 5215949.18 | 32 |
| A94-N | No | 574969.94 | 5215953.38 | 32 |
| A128-W | No | 575029.27 | 5216281.07 | 32 |
| A80-W | No | 574963.68 | 5215654.01 | 32 |
| A100-S | No | 574987.33 | 5215977.67 | 32 |
| A101-E | No | 575010.05 | 5216052.15 | 32 |
| A105-S | No | 575016.98 | 5216071.87 | 32 |
| A144-E | No | 574305.48 | 5217292.64 | 32 |
| A144-S | No | 574275.40 | 5217261.79 | 32 |
| A149-W | No | 574263.52 | 5217227.12 | 32 |
| A150-N | No | 574272.16 | 5217254.42 | 32 |
| A146-E | No | 574266.11 | 5217260.82 | 32 |
| A150-W | No | 574242.08 | 5217223.57 | 32 |
| A129-W | No | 575039.91 | 5216324.43 | 32 |
| A106-N | No | 575009.31 | 5216232.31 | 32 |
| A81-E | No | 574954.51 | 5215716.40 | 32 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A79-E | No | 574952.60 | 5215678.52 | 32 |
| A85-E | No | 574943.35 | 5215734.21 | 32 |
| A102-E | No | 575006.74 | 5216077.14 | 32 |
| A144 | No | 574275.02 | 5217292.26 | 32 |
| A146-S | No | 574236.02 | 5217229.97 | 32 |
| A147-E | No | 574253.67 | 5217281.68 | 32 |
| A144-N | No | 574274.63 | 5217322.73 | 32 |
| A146 | No | 574235.64 | 5217260.44 | 32 |
| A98-W | No | 574965.27 | 5215986.76 | 32 |
| A144-W | No | 574244.55 | 5217291.88 | 32 |
| A145-E | No | 574277.98 | 5217347.43 | 32 |
| A147-S | No | 574223.59 | 5217250.83 | 32 |
| A84-N | No | 574941.46 | 5215681.37 | 31 |
| A84 | No | 574941.84 | 5215650.90 | 31 |
| A143-E | No | 574374.03 | 5217222.58 | 31 |
| A145-S | No | 574247.89 | 5217316.58 | 31 |
| A146-N | No | 574235.26 | 5217290.90 | 31 |
| A147 | No | 574223.21 | 5217281.30 | 31 |
| A151-E | No | 574238.20 | 5217292.04 | 31 |
| A151-S | No | 574208.11 | 5217261.19 | 31 |
| A146-W | No | 574205.17 | 5217260.06 | 31 |
| A145 | No | 574247.51 | 5217347.05 | 31 |
| A147-N | No | 574222.83 | 5217311.77 | 31 |
| A81 | No | 574924.04 | 5215716.01 | 31 |
| A81-N | No | 574923.66 | 5215746.48 | 31 |
| A79-S | No | 574922.52 | 5215647.67 | 31 |
| A82-N | No | 574921.08 | 5215654.18 | 31 |
| A100-W | No | 574956.47 | 5216007.75 | 31 |
| A145-N | No | 574247.13 | 5217377.52 | 31 |
| A147-W | No | 574192.74 | 5217280.92 | 31 |
| A151 | No | 574207.73 | 5217291.66 | 31 |
| A151-N | No | 574207.35 | 5217322.13 | 31 |
| A145-W | No | 574217.04 | 5217346.67 | 31 |
| A85 | No | 574912.89 | 5215733.82 | 31 |
| A85-N | No | 574912.50 | 5215764.29 | 31 |
| A84-W | No | 574911.37 | 5215650.51 | 31 |
| A151-W | No | 574177.27 | 5217291.28 | 31 |
| A85-W | No | 574882.42 | 5215733.44 | 31 |
| A78-N | No | 574859.90 | 5215717.29 | 31 |
| A121-S | No | 575169.61 | 5216179.43 | 31 |
| A120-S | No | 575149.54 | 5216178.86 | 31 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A123-E | No | 575143.94 | 5216170.39 | 31 |
| A77-S | No | 574649.75 | 5214812.37 | 31 |
| A119-S | No | 575138.40 | 5216177.85 | 31 |
| A124-E | No | 575133.41 | 5216160.68 | 31 |
| A77-W | No | 574618.90 | 5214842.45 | 31 |
| A118-S | No | 575124.92 | 5216173.93 | 31 |
| A122-E | No | 575118.18 | 5216166.36 | 31 |
| A117-S | No | 575113.38 | 5216165.94 | 31 |
| A284-S | No | 579433.99 | 5221118.42 | 30 |
| A177-W | No | 581131.26 | 5219680.18 | 30 |
| A177-S | No | 581162.14 | 5219650.13 | 30 |
| A284-W | No | 579403.11 | 5221148.48 | 30 |
| A284 | No | 579433.58 | 5221148.89 | 30 |
| A177 | No | 581161.73 | 5219680.59 | 30 |
| A177-N | No | 581161.31 | 5219711.06 | 30 |
| A123-S | No | 575113.86 | 5216139.54 | 30 |
| A125-E | No | 575116.89 | 5216145.07 | 30 |
| A284-E | No | 579464.05 | 5221149.29 | 30 |
| A177-E | No | 581192.19 | 5219681.01 | 30 |
| A284-N | No | 579433.17 | 5221179.35 | 30 |
| A124-S | No | 575103.33 | 5216129.82 | 30 |
| A126-E | No | 575105.05 | 5216127.73 | 30 |
| A123 | No | 575113.47 | 5216170.01 | 30 |
| A80-E | No | 575024.61 | 5215654.78 | 30 |
| A124 | No | 575102.95 | 5216160.29 | 30 |
| A125-S | No | 575086.81 | 5216114.22 | 30 |
| A122-S | No | 575088.10 | 5216135.51 | 30 |
| A124-N | No | 575102.56 | 5216190.76 | 30 |
| A125 | No | 575086.43 | 5216144.68 | 30 |
| A122 | No | 575087.71 | 5216165.98 | 30 |
| A126 | No | 575074.58 | 5216127.35 | 30 |
| A80 | No | 574994.14 | 5215654.40 | 30 |
| A80-S | No | 574994.53 | 5215623.93 | 30 |
| A125-N | No | 575086.04 | 5216175.15 | 30 |
| A122-N | No | 575087.32 | 5216196.44 | 30 |
| A126-N | No | 575074.19 | 5216157.81 | 30 |
| A116-S | No | 575080.19 | 5216164.51 | 30 |
| A123-W | No | 575083.00 | 5216169.62 | 30 |
| A112-E | No | 575081.84 | 5216197.90 | 30 |
| A116 | No | 575079.80 | 5216194.98 | 30 |
| A117-W | No | 575082.53 | 5216196.02 | 30 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A124-W | No | 575072.48 | 5216159.91 | 30 |
| A113-E | No | 575076.28 | 5216190.14 | 30 |
| A105-E | No | 575047.07 | 5216102.72 | 30 |
| A115 | No | 575077.19 | 5216208.00 | 30 |
| A115-S | No | 575077.57 | 5216177.54 | 30 |
| A116-N | No | 575079.42 | 5216225.44 | 30 |
| A125-W | No | 575055.96 | 5216144.30 | 30 |
| A109-E | No | 575058.42 | 5216158.72 | 30 |
| A110-E | No | 575066.35 | 5216171.26 | 30 |
| A114-E | No | 575069.37 | 5216182.37 | 30 |
| A115-N | No | 575076.80 | 5216238.47 | 30 |
| A122-W | No | 575057.24 | 5216165.59 | 30 |
| A126-W | No | 575044.11 | 5216126.96 | 30 |
| A82-E | No | 574951.93 | 5215624.10 | 30 |
| A112-S | No | 575051.76 | 5216167.04 | 30 |
| A113-S | No | 575046.19 | 5216159.29 | 30 |
| A80-N | No | 574993.76 | 5215684.86 | 30 |
| A111-S | No | 575054.89 | 5216177.39 | 30 |
| A109-S | No | 575028.33 | 5216127.87 | 30 |
| A110-S | No | 575036.27 | 5216140.40 | 30 |
| A111 | No | 575054.51 | 5216207.86 | 30 |
| A112 | No | 575051.38 | 5216197.51 | 30 |
| A114-S | No | 575039.29 | 5216151.52 | 30 |
| A116-W | No | 575049.33 | 5216194.59 | 30 |
| A84-S | No | 574942.23 | 5215620.43 | 30 |
| A77-E | No | 574679.84 | 5214843.22 | 30 |
| A96-N | No | 575002.77 | 5215980.03 | 30 |
| A110 | No | 575035.88 | 5216170.87 | 30 |
| A113 | No | 575045.81 | 5216189.76 | 30 |
| A114 | No | 575038.90 | 5216181.98 | 30 |
| A115-W | No | 575046.72 | 5216207.62 | 30 |
| A112-N | No | 575050.99 | 5216227.98 | 30 |
| A99-W | No | 575022.95 | 5215977.81 | 30 |
| A98 | No | 574995.74 | 5215987.15 | 30 |
| A109 | No | 575027.95 | 5216158.34 | 30 |
| A105 | No | 575016.60 | 5216102.34 | 30 |
| A106-E | No | 575040.16 | 5216202.23 | 30 |
| A113-N | No | 575045.42 | 5216220.22 | 30 |
| A105-N | No | 575016.21 | 5216132.81 | 30 |
| A107-E | No | 575030.82 | 5216178.51 | 30 |
| A110-N | No | 575035.50 | 5216201.34 | 30 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A114-N | No | 575038.52 | 5216212.45 | 30 |
| A82-S | No | 574921.85 | 5215593.24 | 30 |
| A82 | No | 574921.47 | 5215623.71 | 30 |
| A104-E | No | 575011.16 | 5216122.34 | 30 |
| A98-N | No | 574995.35 | 5216017.61 | 29 |
| A100 | No | 574986.94 | 5216008.13 | 29 |
| A108-E | No | 575017.21 | 5216162.45 | 29 |
| A109-N | No | 575027.56 | 5216188.81 | 29 |
| A100-E | No | 575017.41 | 5216008.52 | 29 |
| A103-E | No | 575005.59 | 5216101.28 | 29 |
| A101-S | No | 574979.97 | 5216021.30 | 29 |
| A111-W | No | 575024.04 | 5216207.47 | 29 |
| A112-W | No | 575020.91 | 5216197.12 | 29 |
| A106-S | No | 575010.08 | 5216171.38 | 29 |
| A113-W | No | 575015.34 | 5216189.37 | 29 |
| A101 | No | 574979.59 | 5216051.77 | 29 |
| A77 | No | 574649.37 | 5214842.84 | 29 |
| A77-N | No | 574648.99 | 5214873.30 | 29 |
| A100-N | No | 574986.56 | 5216038.60 | 29 |
| A102-S | No | 574976.65 | 5216046.29 | 29 |
| A107-S | No | 575000.73 | 5216147.66 | 29 |
| A110-W | No | 575005.42 | 5216170.49 | 29 |
| A114-W | No | 575008.44 | 5216181.60 | 29 |
| A105-W | No | 574986.13 | 5216101.95 | 29 |
| A101-N | No | 574979.20 | 5216082.23 | 29 |
| A102 | No | 574976.27 | 5216076.76 | 29 |
| A103-S | No | 574975.50 | 5216070.43 | 29 |
| A104-S | No | 574981.08 | 5216091.49 | 29 |
| A109-W | No | 574997.48 | 5216157.95 | 29 |
| A106 | No | 575009.69 | 5216201.85 | 29 |
| A107 | No | 575000.35 | 5216178.12 | 29 |
| A108-S | No | 574987.13 | 5216131.60 | 29 |
| A82-W | No | 574891.00 | 5215623.33 | 29 |
| A102-N | No | 574975.88 | 5216107.23 | 29 |
| A103 | No | 574975.12 | 5216100.90 | 29 |
| A104 | No | 574980.69 | 5216121.96 | 29 |
| A107-N | No | 574999.96 | 5216208.59 | 29 |
| A108 | No | 574986.74 | 5216162.07 | 29 |
| A103-N | No | 574974.74 | 5216131.36 | 29 |
| A104-N | No | 574980.31 | 5216152.43 | 29 |
| A108-N | No | 574986.36 | 5216192.54 | 29 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|--------------------|------------|---|
| | | UTM NAD83 Zone 14N | | |
| | | X (m) | Y (m) | |
| A101-W | No | 574949.12 | 5216051.38 | 29 |
| A106-W | No | 574979.23 | 5216201.46 | 29 |
| A102-W | No | 574945.80 | 5216076.37 | 29 |
| A104-W | No | 574950.22 | 5216121.57 | 29 |
| A107-W | No | 574969.88 | 5216177.74 | 29 |
| A127-N | No | 575005.72 | 5216311.42 | 29 |
| A103-W | No | 574944.65 | 5216100.51 | 29 |
| A108-W | No | 574956.28 | 5216161.68 | 29 |
| A83-E | No | 574878.69 | 5215638.38 | 29 |
| A78 | No | 574860.29 | 5215686.82 | 29 |
| A78-S | No | 574860.67 | 5215656.35 | 29 |
| A83-N | No | 574847.83 | 5215668.47 | 29 |
| A81-W | No | 574893.57 | 5215715.63 | 29 |
| A83 | No | 574848.22 | 5215638.00 | 29 |
| A78-W | No | 574829.82 | 5215686.44 | 29 |
| A83-W | No | 574817.75 | 5215637.61 | 29 |
| A78-E | No | 574890.76 | 5215687.20 | 29 |
| A83-S | No | 574848.60 | 5215607.53 | 29 |
| A79-W | No | 574891.67 | 5215677.75 | 29 |
| A76-S | No | 574452.39 | 5214813.02 | 28 |
| A75-W | No | 574372.97 | 5214773.68 | 28 |
| A74-E | No | 574472.17 | 5214765.90 | 27 |
| A76-E | No | 574482.48 | 5214843.87 | 27 |
| A73-S | No | 574471.28 | 5214699.14 | 27 |
| A76 | No | 574452.01 | 5214843.49 | 27 |
| A76-N | No | 574451.63 | 5214873.96 | 27 |
| A72-S | No | 574424.40 | 5214687.67 | 27 |
| A76-W | No | 574421.54 | 5214843.11 | 27 |
| A72 | No | 574424.02 | 5214718.14 | 27 |
| A75-S | No | 574403.82 | 5214743.60 | 27 |
| A72-W | No | 574393.55 | 5214717.76 | 27 |
| A72-N | No | 574423.64 | 5214748.61 | 27 |
| A73-W | No | 574440.43 | 5214729.23 | 27 |
| A74-W | No | 574411.23 | 5214765.13 | 27 |
| A72-E | No | 574454.49 | 5214718.52 | 27 |
| A74-S | No | 574442.08 | 5214735.05 | 27 |
| A74 | No | 574441.70 | 5214765.51 | 27 |
| A75 | No | 574403.44 | 5214774.07 | 27 |
| A73-N | No | 574470.51 | 5214760.08 | 27 |
| A75-N | No | 574403.06 | 5214804.53 | 26 |
| A71-S | No | 574336.84 | 5214614.84 | 26 |

Table B-1.2: Sound Level Modeling Results Sorted by Sound Level

| Receptor ID | Signed Waiver | Coordinates UTM NAD83 Zone 14N | | Source Only L _{eq} Sound Level (dBA) |
|-------------|---------------|-----------------------------------|------------|---|
| | | X (m) | Y (m) | |
| A75-E | No | 574433.91 | 5214774.45 | 26 |
| A71-W | No | 574305.99 | 5214644.92 | 26 |
| A73-E | No | 574501.36 | 5214729.99 | 26 |
| A74-N | No | 574441.32 | 5214795.98 | 26 |
| A71-N | No | 574336.08 | 5214675.77 | 26 |
| A71 | No | 574336.46 | 5214645.31 | 26 |
| A73 | No | 574470.90 | 5214729.61 | 26 |
| A71-E | No | 574366.93 | 5214645.69 | 25 |



May 22, 2024

Angelique Theriot
SEARCH
angelique.theriot@searchinc.com

SHSND Ref.: 23-0258 PU-23-256 in Barnes County, North Dakota

Dear Angelique,

From your submission on behalf of Atwell, LLC and Atwell's previous submissions on behalf of Otter Tail Power for the repower of the Ashtabula I Wind farm, it is our understanding that SHSND Ref: 23-0258 Ashtabula III Wind Upgrade Project involves replacing blades, hubs, and gear boxes on 43 existing wind turbines, which will result in an increase to the total height of the turbines. After reviewing the cultural resources survey of the additional area of potential effect, it is our determination that there are no additional adverse effects to significant sites from this project provided it takes place in the location and in the manner described in the documentation.

Thank you for the opportunity to review this project under North Dakota cultural resources consultation. This letter does not serve as federal agency consultation or SHPO consultation for compliance with Section 106 of the National Historic Preservation Act of 1966, as amended, (36 CFR Part 800), or the National Environmental Policy Act, as amended, (42 U.S.C. §§ 4321- 4347).

If you have any questions, please contact Lorna Meidinger, Lead Historic Preservation Specialist at lbmeidinger@nd.gov or (701) 328-2089.

Sincerely,

for William D. Peterson, PhD
Director, State Historical Society of North Dakota

23-0258



Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

Fee: \$ 65.00

299459

OFFICE OF COUNTY RECORDER County of Barnes, North Dakota
 I hereby certify that the within instrument was filed in this office
 on 09/15/2023 at 8:04 AM and was duly recorded.

Dody Proff County Recorder

By Jordan Nelson Deputy

PREPARED BY AND
 AFTER RECORDING RETURN TO:
 Otter Tail Power Company
 PO Box 496, Fergus Falls
 Minnesota 56538
 Attention: Bryce Haugen
 (218) 739-8385

THIS SETBACK WAIVER AGREEMENT (this "Agreement"), is dated and effective as of Aug. 25, 2023 ("Effective Date"), by and between Kurt Wittenberg, a married individual with a mailing address of 508 4th St NE, Valley City, North Dakota 58072 and Albert K. Wittenberg, a married individual with a mailing address of 2880 122nd Ave SE, Valley City, North Dakota 28072 ("Owner"), and Otter Tail Power Company, a Minnesota corporation ("Grantee"), with a mailing address of PO Box 496, Fergus Falls, Minnesota 56538.

RECITALS:

- A. Owner is the owner of that certain real property located in Barnes County, North Dakota, as more particularly described on the attached Exhibit A ("Owner Property").
- B. Grantee owns, operates, and maintains a wind energy generation facility ("Project") on certain real property located adjacent to and in the vicinity of the Owner Property (collectively, the "Project Property").
- C. Grantee intends to install new turbine technology on the Project, which includes new, longer turbine blades ("Project Upgrades"). The Project's turbine locations will not change, but the Project Upgrades will increase the overall height of the turbines (due to the increased blade length) and result in one or more turbine(s) on Project Property being within 1.1 times the height of the turbine from a property line of the Owner Property.
- D. Owner is willing to grant to Grantee a setback waiver for the Owner Property as it relates to Grantee's Project on the Project Property, as set forth below.

Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

AGREEMENT:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree that the Recitals set forth above are hereby incorporated into the Agreement and further agree as follows:

1. **Setback Waiver.** North Dakota Century Code Section 49-22-05.1(4) and North Dakota Administrative Code Section 69-06-08-01(2)(a)(5) provide that a turbine shall be 1.1 times the turbine's height from the property line of a nonparticipating landowner ("Property Line Setback"), unless the setback is waived by written agreement. Owner agrees to and hereby does waive the Property Line Setback with respect to the Project, and supports the North Dakota Public Service Commission granting a variance to Grantee for the Project with respect to the Property Line Setback as it relates to the Owner Property.

2. **Cooperation.** Owner agrees to not publicly oppose or otherwise object to the Project and to execute and deliver such reasonably requested documents and take such action as may be reasonably requested by Grantee to carry out the purposes and intent of this Agreement.

3. **Term of Agreement.** The term of this Agreement shall commence on the Effective Date and shall continue until December 31, 2105.

4. **Consideration.** The consideration for this Agreement is set forth on the attached Exhibit B, which Exhibit B shall be removed before recording this Agreement in the official real property records of the county in which the Owner Property is located. Owner and Grantee agree that such removal of Exhibit B prior to recording shall not affect the validity of this Agreement.

5. **Termination.** Grantee shall have the right, at any time during the Term, to terminate this Agreement as to all or any part of the Owner Property by providing written notice to Owner. Following any such termination, Grantee is authorized to file a release of this Agreement in the official real property records of the county in which the Owner Property is located.

6. **Authority; Title.** Owner represents and warrants that it is the sole owner of the Owner Property in fee simple and has the full and unrestricted right and authority to execute and deliver this Agreement and to grant to Grantee the waiver and other rights granted hereunder. Each person signing this Agreement on behalf of Owner is authorized to do so, and all persons having any ownership or interest in the Owner Property have signed this Agreement on behalf of Owner.

7. **Assignment.** Grantee shall have the right at any time, without need for consent from Owner, to assign or convey all or any portion of this Agreement to an assignee or assignees, on an exclusive or nonexclusive basis, or to mortgage or collaterally assign all or any part of its interest in the Agreement and its rights under the Agreement to any entity (each a "Mortgagee" and collectively, "Mortgagees"). Grantee may mortgage or encumber any part of Grantee's rights and interests under the Agreement without the need for consent from Owner, provided that any such mortgage attaches only to Grantee's rights and does not otherwise attach to the Owner

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INDEPENDENCE OH 44131-5559

Property. Owner shall have the right to sell, convey, or transfer its interest in the Owner Property, or a portion thereof, without the need for consent from Grantee, provided that Owner shall, prior to any such sale, conveyance, or other transfer, give written notice to Grantee thereof, which notice shall include the name, address, and telephone number of the proposed transferee.

8. **Notice.** All communications required or permitted by this Agreement shall be given in writing by personal delivery (confirmed by courier delivery service) or first-class U.S. mail, postage prepaid, return receipt requested, certified, addressed as follows:

If to Owner:

Kurt Wittenberg
 508 4th St NE
 Valley City, ND 58072
 Phone: 701-490-2464
 E-mail: _____

Albert K. Wittenberg
 2880 122nd Ave SE
 Valley City, ND 58072
 Phone: 701-490-1107
 E-mail: albe.witten@yahoo.com

If to Grantee:

Otter Tail Power Company
 Attn: Bryce Haugen
 PO Box 496
 Fergus Falls, Minnesota 56538
 Phone: 218-739-8385
 E-mail: bhaugen@otpco.com

Any party may change its address for purposes of this paragraph by giving notice of such change to the other parties in the manner provided in this Section 8. Any notice provided for herein shall become effective only upon actual receipt by the party to whom it is given, unless such notice is mailed by certified mail, return receipt requested, in which case it shall be deemed to be received five (5) business days after the date mailed.

9. **Recording.** Owner and Grantee agree that this Agreement may be recorded by Grantee in the official real property records of the county in which the Owner Property is located.

10. **Miscellaneous.** This Agreement shall be governed by the laws of the State of North Dakota. This Agreement constitutes the entire agreement between Grantee and Owner with respect to the subject matter hereof and supersedes any and all prior oral or written understandings, representations or statements among the parties with respect to the subject matter hereof. This Agreement may not be amended except in a writing executed by both parties. This Agreement may be executed in two or more counterparts and by different parties on separate counterparts, all

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INDEPENDENCE OH 44131-5559**

of which shall be considered one and the same agreement and each of which shall be deemed an original. Nothing herein shall be deemed to create a joint venture or partnership between parties hereto. In the event of breach of this Agreement, Grantee shall be entitled to all remedies provided at law or in equity, including injunctive relief. The prevailing party in any action arising out of, or in connection with, this Agreement shall be entitled to be reimbursed its costs and expenses, including reasonable attorney fees, by the non-prevailing party. NEITHER PARTY SHALL BE ENTITLED TO, AND OWNER AND GRANTEE HEREBY WAIVE ANY AND ALL RIGHTS TO RECOVER, CONSEQUENTIAL, INCIDENTAL, AND PUNITIVE OR EXEMPLARY DAMAGES, HOWEVER ARISING, WHETHER IN CONTRACT, IN TORT, OR OTHERWISE, UNDER OR WITH RESPECT TO ANY ACTION TAKEN IN CONNECTION WITH THIS AGREEMENT.

[Signature pages follow.]

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INDEPENDENCE OH 44131-5559

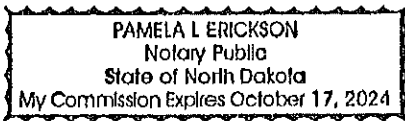
OWNER: Albert K. Wittenberg, a married individual

By: Albert K Wittenberg
Name: Albert K. Wittenberg

STATE OF ND)
COUNTY OF Barnes) ss.

On this 11 day of August, 2023, before me, the undersigned officer, personally appeared Albert K. Wittenberg, as a married individual, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument, and acknowledged that they executed the same for the purpose therein contained.

Witness my hand and official seal.



Pamela L. Erickson
Notary Public _____
(State)
My commission expires: 17 October 2024

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7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

CONSENT OF SPOUSE

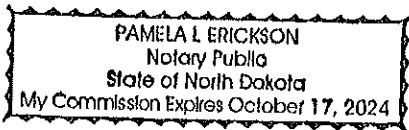
The undersigned spouse is joining this Agreement to acknowledge and accept its contents and to ratify the Agreement as applicable to the spouse's interest in the Owner Property.

By: Dawn Marie Wittenberg
Printed Name: Dawn Marie Wittenberg

STATE OF ND)
) ss.
COUNTY OF Burnes)

On this 11th day of August, 2023, before me, the undersigned officer, personally appeared Dawn Marie Wittenberg known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purpose therein contained.

Witness my hand and official seal.



Pamela L. Erickson
Notary Public _____
(State)
My commission expires: 17 Oct 2024

Return To: ATWELL-GROUP
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

GRANTEE:

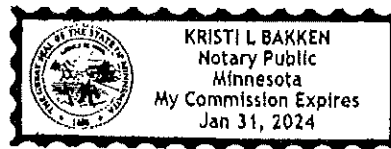
OTTER TAIL POWER COMPANY,
a Minnesota corporation

By: [Signature]
Name: Randy Synsteden
Title: Manager, Development

STATE OF MINNESOTA)
) ss.
COUNTY OF Wilkin)

The foregoing instrument was acknowledged before me this 13th day of September, 2023 by Randy Synsteden as the Manager, Development for Otter Tail Power Company, a Minnesota corporation, on behalf of the corporation.

Kristi L Bakken
Notary Public



Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

EXHIBIT A

Legal Description of the Owner Property

The following described property located in Ashtabula Township, Barnes County, North Dakota:

Parcel 1:

The following described land located in Ashtabula Township, Barnes County, North Dakota:

The South Half (S½) of Section Thirty-Five (35), Township One Hundred Forty-Two (142), Range Fifty-Eight (58), Barnes County, North Dakota,

EXCEPTING

The Southeast Quarter (SE¼) of Section Thirty-Five (35), Township One Hundred Forty-Two (142), Range Fifty-Eight (58), Barnes County, North Dakota.

Tax Identification Number: 03-3530300

Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

AGREEMENT:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree that the Recitals set forth above are hereby incorporated into the Agreement and further agree as follows:

1. **Setback Waiver.** North Dakota Century Code Section 49-22-05.1(4) and North Dakota Administrative Code Section 69-06-08-01(2)(a)(5) provide that a turbine shall be 1.1 times the turbine's height from the property line of a nonparticipating landowner ("**Property Line Setback**"), unless the setback is waived by written agreement. Owner agrees to and hereby does waive the Property Line Setback with respect to the Project, and supports the North Dakota Public Service Commission granting a variance to Grantee for the Project with respect to the Property Line Setback as it relates to the Owner Property.
2. **Cooperation.** Owner agrees to not publicly oppose or otherwise object to the Project and to execute and deliver such reasonably requested documents and take such action as may be reasonably requested by Grantee to carry out the purposes and intent of this Agreement.
3. **Term of Agreement.** The term of this Agreement shall commence on the Effective Date and shall continue until December 31, 2105.
4. **Consideration.** The consideration for this Agreement is set forth on the attached Exhibit B, which Exhibit B shall be removed before recording this Agreement in the official real property records of the county in which the Owner Property is located. Owner and Grantee agree that such removal of Exhibit B prior to recording shall not affect the validity of this Agreement.
5. **Termination.** Grantee shall have the right, at any time during the Term, to terminate this Agreement as to all or any part of the Owner Property by providing written notice to Owner. Following any such termination, Grantee is authorized to file a release of this Agreement in the official real property records of the county in which the Owner Property is located.
6. **Authority; Title.** Owner represents and warrants that it is the sole owner of the Owner Property in fee simple and has the full and unrestricted right and authority to execute and deliver this Agreement and to grant to Grantee the waiver and other rights granted hereunder. Each person signing this Agreement on behalf of Owner is authorized to do so, and all persons having any ownership or interest in the Owner Property have signed this Agreement on behalf of Owner.
7. **Assignment.** Grantee shall have the right at any time, without need for consent from Owner, to assign or convey all or any portion of this Agreement to an assignee or assignees, on an exclusive or nonexclusive basis, or to mortgage or collaterally assign all or any part of its interest in the Agreement and its rights under the Agreement to any entity (each a "**Mortgagee**" and collectively, "**Mortgagees**"). Grantee may mortgage or encumber any part of Grantee's rights and interests under the Agreement without the need for consent from Owner, provided that any such mortgage attaches only to Grantee's rights and does not otherwise attach to the Owner

**Return To: ATWELL-GROUP
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559**

Property. Owner shall have the right to sell, convey, or transfer its interest in the Owner Property, or a portion thereof, without the need for consent from Grantee, provided that Owner shall, prior to any such sale, conveyance, or other transfer, give written notice to Grantee thereof, which notice shall include the name, address, and telephone number of the proposed transferee.

8. **Notice.** All communications required or permitted by this Agreement shall be given in writing by personal delivery (confirmed by courier delivery service) or first-class U.S. mail, postage prepaid, return receipt requested, certified, addressed as follows:

If to Owner:

Mark Swanberg
11449 35th St SE
Valley City, ND 58072
Phone: 701-367-7995
E-mail: mark@swanbergconstruction.com

If to Grantee:

Otter Tail Power Company
Attn: Bryce Haugen
PO Box 496
Fergus Falls, Minnesota 56538
Phone: 218-739-8385
E-mail: bhaugen@otpc.com

Any party may change its address for purposes of this paragraph by giving notice of such change to the other parties in the manner provided in this Section 8. Any notice provided for herein shall become effective only upon actual receipt by the party to whom it is given, unless such notice is mailed by certified mail, return receipt requested, in which case it shall be deemed to be received five (5) business days after the date mailed.

9. **Recording.** Owner and Grantee agree that this Agreement may be recorded by Grantee in the official real property records of the county in which the Owner Property is located.

10. **No Surface Use Rights.** This Agreement does not grant any surface use rights of the Owner Property to the Grantee.

11. **Restoration.** To the extent practical, in the event of unintended damages to the Owner Property set forth on the attached Exhibit A, Grantee will restore the Owner Property to the condition it was in before the Grantee's use.

12. **Miscellaneous.** This Agreement shall be governed by the laws of the State of North Dakota. This Agreement constitutes the entire agreement between Grantee and Owner with respect to the subject matter hereof and supersedes any and all prior oral or written understandings, representations or statements among the parties with respect to the subject matter hereof. This Agreement may not be amended except in a writing executed by both parties. This Agreement

**Return To: ATWELL-GROUP
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559**

may be executed in two or more counterparts and by different parties on separate counterparts, all of which shall be considered one and the same agreement and each of which shall be deemed an original. Nothing herein shall be deemed to create a joint venture or partnership between parties hereto. In the event of breach of this Agreement, Grantee shall be entitled to all remedies provided at law or in equity, including injunctive relief. The prevailing party in any action arising out of, or in connection with, this Agreement shall be entitled to be reimbursed its costs and expenses, including reasonable attorney fees, by the non-prevailing party. NEITHER PARTY SHALL BE ENTITLED TO, AND OWNER AND GRANTEE HEREBY WAIVE ANY AND ALL RIGHTS TO RECOVER, CONSEQUENTIAL, INCIDENTAL, AND PUNITIVE OR EXEMPLARY DAMAGES, HOWEVER ARISING, WHETHER IN CONTRACT, IN TORT, OR OTHERWISE, UNDER OR WITH RESPECT TO ANY ACTION TAKEN IN CONNECTION WITH THIS AGREEMENT.

[Signature pages follow.]

Return To: ATWELL-GROUP
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

EXHIBIT A

Legal Description of the Owner Property

The following described property located in Ashtabula Township, Barnes County, North Dakota:

Parcel 1:

The following described land located in Ashtabula Township, Barnes County, North Dakota:

The West One-half of the Northwest Quarter ($W\frac{1}{2}NW\frac{1}{4}$) of Section Twenty-five (25), Township One Hundred Forty-two North (142N), Range Fifty-eight West (58W), Barnes County, North Dakota;

Tax Identification Number: 03-2520210



Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

Fee: \$ 65.00

299149

OFFICE OF COUNTY RECORDER County of Barnes, North Dakota
 I hereby certify that the within instrument was filed in this office
 on 07/26/2023 at 8:15 AM and was duly recorded.

[Signature]
 _____ County Recorder
 By: *[Signature]* _____ Deputy

PREPARED BY AND
 AFTER RECORDING RETURN TO:
 Otter Tail Power Company
 PO Box 496, Fergus Falls
 Minnesota 56538
 Attention: Bryce Haugen
 (218) 739-8385

THIS SETBACK WAIVER AGREEMENT (this "Agreement"), is dated and effective as of July 25, 2023 ("Effective Date"), by and between Adam J. Svenningsen and Tara L. Svenningsen, husband and wife ("Owner") with a mailing address of 3255 115th Ave SE, Valley City, North Dakota 58072, and Otter Tail Power Company, a Minnesota corporation ("Grantee"), with a mailing address of PO Box 496, Fergus Falls, Minnesota 56538.

RECITALS:

- A. Owner is the owner of that certain real property located in Barnes County, North Dakota, as more particularly described on the attached Exhibit A ("Owner Property").
- B. Grantee owns, operates, and maintains a wind energy generation facility ("Project") on certain real property located adjacent to and in the vicinity of the Owner Property (collectively, the "Project Property").
- C. Grantee intends to install new turbine technology on the Project, which includes new, longer turbine blades ("Project Upgrades"). The Project's turbine locations will not change, but the Project Upgrades will increase the overall height of the turbines (due to the increased blade length) and result in one or more turbine(s) on Project Property being within 1.1 times the height of the turbine from a property line of the Owner Property.
- D. Owner is willing to grant to Grantee a setback waiver for the Owner Property as it relates to Grantee's Project on the Project Property, as set forth below.

Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

AGREEMENT:

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree that the Recitals set forth above are hereby incorporated into the Agreement and further agree as follows:

1. **Setback Waiver.** North Dakota Century Code Section 49-22-05.1(4) and North Dakota Administrative Code Section 69-06-08-01(2)(a)(5) provide that a turbine shall be 1.1 times the turbine's height from the property line of a nonparticipating landowner ("**Property Line Setback**"), unless the setback is waived by written agreement. Owner agrees to and hereby does waive the Property Line Setback with respect to the Project, and supports the North Dakota Public Service Commission granting a variance to Grantee for the Project with respect to the Property Line Setback as it relates to the Owner Property.

2. **Cooperation.** Owner agrees to not publicly oppose or otherwise object to the Project and to execute and deliver such reasonably requested documents and take such action as may be reasonably requested by Grantee to carry out the purposes and intent of this Agreement.

3. **Term of Agreement.** The term of this Agreement shall commence on the Effective Date and shall continue until December 31, 2105.

4. **Consideration.** The consideration for this Agreement is set forth on the attached **Exhibit B**, which **Exhibit B** shall be removed before recording this Agreement in the official real property records of the county in which the Owner Property is located. Owner and Grantee agree that such removal of **Exhibit B** prior to recording shall not affect the validity of this Agreement.

5. **Termination.** Grantee shall have the right, at any time during the Term, to terminate this Agreement as to all or any part of the Owner Property by providing written notice to Owner. Following any such termination, Grantee is authorized to file a release of this Agreement in the official real property records of the county in which the Owner Property is located.

6. **Authority; Title.** Owner represents and warrants that it is the sole owner of the Owner Property in fee simple and has the full and unrestricted right and authority to execute and deliver this Agreement and to grant to Grantee the waiver and other rights granted hereunder. Each person signing this Agreement on behalf of Owner is authorized to do so, and all persons having any ownership or interest in the Owner Property have signed this Agreement on behalf of Owner.

7. **Assignment.** Grantee shall have the right at any time, without need for consent from Owner, to assign or convey all or any portion of this Agreement to an assignee or assignees, on an exclusive or nonexclusive basis, or to mortgage or collaterally assign all or any part of its interest in the Agreement and its rights under the Agreement to any entity (each a "**Mortgagee**" and collectively, "**Mortgagees**"). Grantee may mortgage or encumber any part of Grantee's rights and interests under the Agreement without the need for consent from Owner, provided that any such mortgage attaches only to Grantee's rights and does not otherwise attach to the Owner

Return To: **ATWELL-GROUP**
7100 E PLEASANT VALLEY RD STE
INDEPENDENCE OH 44131-5559

Property. Owner shall have the right to sell, convey, or transfer its interest in the Owner Property, or a portion thereof, without the need for consent from Grantee, provided that Owner shall, prior to any such sale, conveyance, or other transfer, give written notice to Grantee thereof, which notice shall include the name, address, and telephone number of the proposed transferee.

8. **Notice.** All communications required or permitted by this Agreement shall be given in writing by personal delivery (confirmed by courier delivery service) or first-class U.S. mail, postage prepaid, return receipt requested, certified, addressed as follows:

If to Owner:

Adam J. & Tara L. Svenningsen
3255 115th Ave SE
Valley City, ND 58072
Phone: _____
E-mail: tara_svenningsen@hotmail.com

If to Grantee:

Otter Tail Power Company
Attn: Bryce Haugen
PO Box 496
Fergus Falls, Minnesota 56538
Phone: 218-739-8385
E-mail: bhaugen@otpc.com

Any party may change its address for purposes of this paragraph by giving notice of such change to the other parties in the manner provided in this Section 8. Any notice provided for herein shall become effective only upon actual receipt by the party to whom it is given, unless such notice is mailed by certified mail, return receipt requested, in which case it shall be deemed to be received five (5) business days after the date mailed.

9. **Recording.** Owner and Grantee agree that this Agreement may be recorded by Grantee in the official real property records of the county in which the Owner Property is located.

10. **Miscellaneous.** This Agreement shall be governed by the laws of the State of North Dakota. This Agreement constitutes the entire agreement between Grantee and Owner with respect to the subject matter hereof and supersedes any and all prior oral or written understandings, representations or statements among the parties with respect to the subject matter hereof. This Agreement may not be amended except in a writing executed by both parties. This Agreement may be executed in two or more counterparts and by different parties on separate counterparts, all of which shall be considered one and the same agreement and each of which shall be deemed an original. Nothing herein shall be deemed to create a joint venture or partnership between parties hereto. In the event of breach of this Agreement, Grantee shall be entitled to all remedies provided at law or in equity, including injunctive relief. The prevailing party in any action arising out of, or in connection with, this Agreement shall be entitled to be reimbursed its costs and expenses, including reasonable attorney fees, by the non-prevailing party. NEITHER PARTY SHALL BE

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INDEPENDENCE OH 44131-5559**

ENTITLED TO, AND OWNER AND GRANTEE HEREBY WAIVE ANY AND ALL RIGHTS TO RECOVER, CONSEQUENTIAL, INCIDENTAL, AND PUNITIVE OR EXEMPLARY DAMAGES, HOWEVER ARISING, WHETHER IN CONTRACT, IN TORT, OR OTHERWISE, UNDER OR WITH RESPECT TO ANY ACTION TAKEN IN CONNECTION WITH THIS AGREEMENT.

[Signature pages follow.]

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EXHIBIT A

Legal Description of the Owner Property

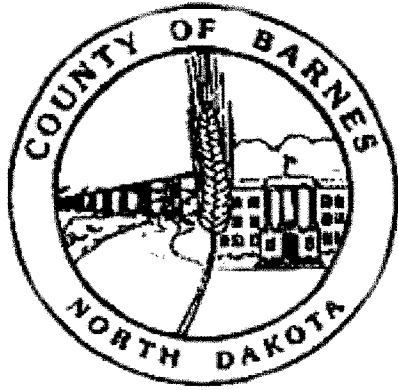
The following described property located in Ashtabula Township, Barnes County, North Dakota:

Parcel 1:

The following described land located in Ashtabula Township, Barnes County, North Dakota:

The Southeast Quarter (SE1/4) of Section Twenty-three (23), in Township One Hundred Forty-two (142) North, of Range Fifty-eight (58) West of the Fifth Principal Meridian, Barnes County, North Dakota.

Tax Identification Number: 03-2340400



Barnes County Variance Permit

PERMIT NO.
010-23

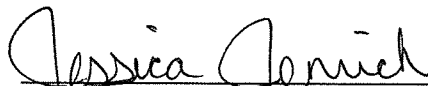
OWNER: Otter Tail Power Company

ADDRESS OF OWNER: 215 S Cascade St Fergus Falls MN 56537

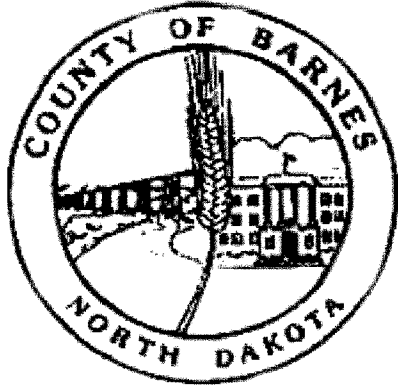
LOCATION OF BUILDING SITE: Multiple sites see attached

Variance Permit for 39 wind turbines for 412' tip height and 3 locations for closer than 1.25 setback from roads

DATE ISSUED: 09/19/2023 This permit is valid for 2 years from date of issued if change in use



Jessica Jenrich
Barnes County Zoning Administrator



Barnes County BUILDING PERMIT

PERMIT NO.
063-23


OWNER__ Otter Tail Power Company_____

ADDRESS OF OWNER__ 215 S Cascade St Fergus Falls MN 56537_____

LOCATION OF BUILDING SITE__ multiple sites see attached_____

TYPE OF BUILDING__ Wind Turbine repower_____

DATE ISSUED__ 09/19/2023_____ This permit is valid for 1 year from date of issue

_____

Jessica Jenrich
Barnes County Zoning Administrator

****Please Notify Jenrich if project is delayed****