

July 10, 2019

Ms. Tanowa Troupe, Secretary  
Ohio Power Siting Board  
Docketing Division  
180 East Broad Street, 11<sup>th</sup> Floor  
Columbus, Ohio 43215-3797

**Re: Case No. 18-1607-EL-BGN - In the Matter of the Application of Firelands Wind, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Wind-Powered Electric Generation Facility in Huron and Erie Counties, Ohio.**

**Third Supplement to Application – Updated Wind Turbine Models and Maps**

Dear Ms. Troupe:

On January 31, 2019, as supplemented on March 18, 2019, and April 11, 2019, Firelands Wind, LLC (“Applicant”) filed an application with the Ohio Power Siting Board (“Board”) for a Certificate of Environmental Compatibility and Public Need to Construct a Wind-Powered Electric Generation Facility in Huron and Erie Counties, Ohio (“Application”).

As stated in the initial Application, the facility will consist of up to 87 wind turbines, each with a nameplate capacity of between 4.2 and 4.5 megawatts (MW), depending on the final turbine model selected. The total generating capacity of the facility will not exceed 297.66 MW.

As discussed below, the purpose of this Third Supplement to the Application is threefold: update the list of turbine models that may be used for this Project to include the latest updated versions of the Nordex and Vestas turbine models, which were included in the Application; provide an updated map that reflects a small portion of the Project boundary that was inadvertently excluded from the maps included in the Application; and provide updated maps reflecting the locations for several associated collection lines and private access roads.

This Third Amendment does not change other documentation provided as part of the Application, including, but not limited to: the general purpose of the facility; the facility description; the site selection process; the location of the turbines; the principal environmental, cultural, and socioeconomic considerations and surveys; the transportation and road use plans; and the Project schedule.

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#### A. Turbine Model Update

The following chart provides a comparison of the turbine models that were listed in the Application as models under consideration for the Project, as well as the additional turbine models provided in this Third Supplement that are also under consideration:

|                           | Listed in Application  |                              |   | Third Supplement Update                                     |   |   |                        |
|---------------------------|------------------------|------------------------------|---|---|---|---|------------------------|
| TURBINE MODEL             | Vestas V150 4.2 MW     | Siemens Gamesa SG 145 4.5 MW | Nordex N149 4.5 MW  | Nordex N149 4.8 MW  | Nordex N149 5.5 MW  | Nordex N149 5.7 MW  | Vestas V150 5.6 MW     |
| Rotor Diameter            | 150 meters<br>492 feet | 145 meters<br>476 feet       | 149 meters<br>489 feet                                      | 149 meters<br>489 feet                                      | 149 meters<br>489 feet                                      | 149 meters<br>489 feet                                      | 150 meters<br>492 feet |
| Hub Height                | 105 meters<br>344 feet | 107.5 meters<br>353 feet     | 109 meters<br>(358 feet)<br>or 125 meters<br>(410 feet)     | 105 meters<br>344 feet |
| Maximum Total Height      | 180 meters<br>591 feet | 180 meters<br>591 feet       | 183.5 meters<br>(602 feet)<br>or 199.5 meters<br>(655 feet) | 180 meters<br>591 feet |
| Maximum Generation        | 4.2 MW                 | 4.5 MW                       | 4.5 MW  | 4.8 MW  | 5.5 MW  | 5.7 MW  | 5.6 MW                 |
| Wind Speed at Cut-In      | 3 m/s                  | 3 m/s                        | 3 m/s   | 3 m/s   | 3 m/s   | 3 m/s   | 3 m/s                  |
| Maximum Sound Power Level | 104.9 dB               | 107.8 dB                     | 106.1 dB  | 106.1 dB  | 104.8 dB  | 105.6 dB  | 104.9 dB               |
| Number of Turbines Needed | 71                     | 66                           | 66  | 62  | 54  | 52  | 53                     |

The Applicant affirms that the Project will not exceed the 297.66 MW total generating capacity requested in the Application. However, by adding the Nordex N149 4.8, 5.5, and 5.7 MW, and the Vestas V150 5.6 MW turbine models to the list of possible turbines that could be utilized for the Project, there is an opportunity to increase the capacity of the turbine models, which would reduce the number of turbines needed for the facility. In addition, by uprating the capacity, the turbine may prove more efficient and cost effective.

#### 1. **Vestas V150 Turbine Model - Sound**

The Applicant's consultant, RSG, conducted a sound assessment for the turbine models listed in the Application, which was included as Exhibit G to the Application. Attached to this Third Supplement, as Attachment 1, is an update to Exhibit G to the Application, which supersedes and replaces that exhibit. Attachment 1 includes an analysis of the Vestas V150 5.6 MW turbine that is under consideration for this Project. The only change to Attachment 1 from Exhibit G is the additional analysis of the Vestas V150 5.6 MW turbine model; in all other respects the document is identical to Exhibit G. As shown in Attachment 1, RSG amended the original sound assessment to include the Vestas V150 5.6 MW. This assessment shows that the Vestas V150-5.6 MW turbine model is equal to or lower than the required maximum level for all nonparticipating

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receptors. The maximum sound pressure level at a nonparticipating receptor from the Vestas V150-5.6 is 45 A-weighted decibels (dBA). As stated in the Application, in compliance with Ohio Administrative Code (“O.A.C.”) Rule 4906-4-09(F), in no event will the facility sound contribution at any nonparticipating sensitive receptor within one mile of the Project boundary exceed the Project area ambient nighttime average sound level by 5 dBA.

## **2. Nordex N149 Turbine Model - Sound**

The following documents, which are attached to this Third Supplement, set forth RSG’s assessment of the sound impact for the additional Nordex turbine models proposed herein:

- a. Attachment 2 - RSG April 30, 2019 Memorandum Nordex N149 4.8 MW Turbine: RSG compared the sound emissions for the Nordex N149 4.5 MW model assessed in Exhibit G to the Application with the 4.8 MW model and found that the overall and 1/1 octave sound power data are identical. RSG determined that the conclusions set forth in the Application for the 4.5 MW turbine are likewise applicable to the 4.8 MW turbine.
- b. Attachment 3 – RSG June 24, 2019 Memorandum Nordex N149 5.5 and 5.7 MW Turbines: RSG compared the sound emissions for the Nordex N149 4.5 MW model assessed in Exhibit G to the Application with the 5.5 and 5.7 MW models and found that the overall sound power level of the 5.5 and 5.7 MW models is less than the overall sound power level of the 4.5 MW model. RSG notes that the 1/1 or 1/3 octave sound power data is not yet published for the 5.5 and 5.7 MW models. However, because the overall sound power level is less, RSG expects that the octave sound power data will likewise be less than that reported in Exhibit G to the Application. RSG further states that, due to the increase in the turbine output from 4.5 MW to either 5.5 or 5.7 MW, fewer turbines would be installed, thus, reducing the overall sound impacts. RSG will perform additional analysis of the sound emissions from the 5.5 and 5.7 MW models when the spectral data is available. The Applicant commits that, once completed, the assessment will be provided to the Board.

In the unlikely event that future modeling of the two Nordex turbine models (N149 5.5 and 5.7 MW) without octave band spectral data demonstrates a sound level that is higher at a given receptor when compared to the previously modeled lower generator capacity version of that turbine model, the Applicant will either not build the Nordex N149 5.5 or 5.7 MW turbine at that location, operationally curtail the turbine, or obtain the necessary waivers/participation agreements.

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In addition, as stated previously, in compliance with O.A.C. Rule 4906-4-09(F), in no event will the facility sound contribution at any nonparticipating sensitive receptor within one mile of the Project boundary exceed the Project area ambient nighttime average sound level by 5 dBA.

### **3. Shadow Flicker**

The Applicant's consultant, Environmental Design & Research ("EDR"), conducted a shadow flicker analysis for the turbine models listed in the Application. EDR's Shadow Flicker Report was included as Exhibit H to the Application. The Applicant confirms that, with the exception of the uprated capacity, the additional Nordex and Vestas turbine models proposed in this Third Supplement are the exact same models as the Nordex and Vestas models reported in Exhibit H. Therefore, there are no changes to the Shadow Flicker Report contained in Exhibit H. The Applicant further notes that, as stated in the Application, the facility will comply with O.A.C. Rule 4906-4-09(H) such that it will be operated so that shadow flicker levels do not exceed 30 hours per year at any nonparticipating sensitive receptor within 1,000 meters of any turbine without the necessary waivers/participation agreements.

### **4. Manufacturer Manuals**

The manufacturer manuals for the Nordex N149 4.8 model were submitted under seal as part of Exhibit N to the Application. Attachments 4 and 5 to this Third Supplement contain the manufacturer's information for the Nordex N149 5.5 and 5.7 MW models and the technical description for the Nordex N149 4.0-4.5 MW models. In addition, the manufacturer's information for the Vestas V150-5.6 MW turbine is attached hereto as Attachment 6. Attachments 4 through 6 are being filed under seal and are accompanied by a Motion for Protective Order that is being filed this same day.

## **B. Updated Maps**

### **1. Project Boundary**

Upon review of the maps submitted with the Application, it was discovered that two small sections of the Project Area boundary were inadvertently not included in the maps that were submitted. These two sections are located on the west side of the Project and are shown on Attachment 7 to this Third Supplement. The Applicant notes that all of the studies and surveys required pursuant to the Board's rules, which were filed with the Application, include a review and analysis of these two sections.

### **2. Collection Lines and Private Access Roads**

Attachment 8 contains updated maps reflecting that the locations for several associated collection lines and private access roads that have been relocated. These revisions are a result of the communications and coordination efforts the Applicant has been engaged in with its engineers and the participating landowners. The relocated collection lines and private access roads are all located within the Project area boundary.

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The Applicant is currently completing its review of the wetlands information that was filed with the initial Application with respect to the collection lines and private access roads that have been relocated. Should the wetlands information filed with the initial Application need to be updated, the Applicant will file such information with the Board in the near future. All other studies and surveys required pursuant to the Board's rules for these collection lines and private access roads have been completed and were filed with the Application.

The original of this Third Supplement to the Application was filed electronically. In addition, 5 complete paper copies and 10 USBs have been provided to the Docketing Division.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

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### CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 10<sup>th</sup> day of July, 2019.

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Third Supplement to Application  
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## **Attachment 1**

### **Noise Assessment**

**by RSG  
June 25, 2019**

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## 1.0 INTRODUCTION

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Apex Clean Energy, Inc. is submitting a permit application to Ohio Power Siting Board (“OPSB”) to build the Emerson Creek Wind Farm (“Emerson Creek”) in Erie and Huron Counties. The facility will involve the construction of up to 71 wind turbines for a project rating of up to 297.66 MW. The turbines would be installed in an area south of Interstate 80 (“I-80”), mostly west of Ohio Route 99 (“OH-99”), north of US Route 224 (“US-224”), and east of Seneca and Sandusky Counties. For the application, RSG has performed a sound level assessment of the project based on the current turbine layout. Included in this report are:

- A description of the project;
- A discussion of sound level standards;
- Background sound level monitoring procedure and results;
- Sound propagation modeling procedure and results;
- A discussion on construction noise; and
- Conclusions.

Appendix A includes a primer on the science of sound, including descriptions of some of the acoustical terms used in this report. Appendix B provides a discussion on several topics related to wind turbine acoustics in general.

The information presented in this report leads us to conclude that the proposed Emerson Creek Wind Farm can be constructed and operated in such a way as to comply with the OPSB requirements and noise limits for wind energy projects at all non-participating sensitive receptors.

## 2.0 PROJECT DESCRIPTION

Emerson Creek Wind Farm is proposed to be located in Erie and Huron Counties. The project area is generally south of I-80, west of OH-99, north of US-224, and east of the Seneca and Sandusky Counties. There are however eight turbines east of OH-99 in the northeast corner of the project area.

The wind project is designed to include up to 71 turbines with hub heights between 105 meters (344 feet) and 125 meters (410 feet), depending on the final turbine selection. The turbine models currently under consideration are shown in Table 1. The project will also include two 100-133-167 MVA transformers at a collector substation to be located on Sand Hill Road approximately 1 kilometer (3,280 feet) north of US-20.

**TABLE 1: TURBINE MODELS UNDER CONSIDERATION FOR EMERSON CREEK WIND**

| TURBINE MAKE/MODEL        | TURBINE OUTPUT (MW) | HUB HEIGHT (m) |
|---------------------------|---------------------|----------------|
| Vestas V150               | 4.2 or 5.6          | 105            |
| Siemens Gamesa SG 4.5-145 | 4.5                 | 107.5          |
| Nordex N149               | 4.5                 | 109 or 125     |

The area around the project is composed primarily of agricultural land uses with rural residences. Terrain in the area is mostly flat. There are several rail lines running through the area, an interstate at the northern end of the project area, US-20 transecting the northern third of the project area, and US-224 at the southern end of the project area. There are two other proposed wind farms near the proposed Emerson Creek Wind Farm: Republic Wind Farm to the west in Sandusky and Seneca Counties and Seneca Wind Farm to the southwest in Seneca County.

A map of the proposed project showing the proposed turbine layout is provided in Figure 1.



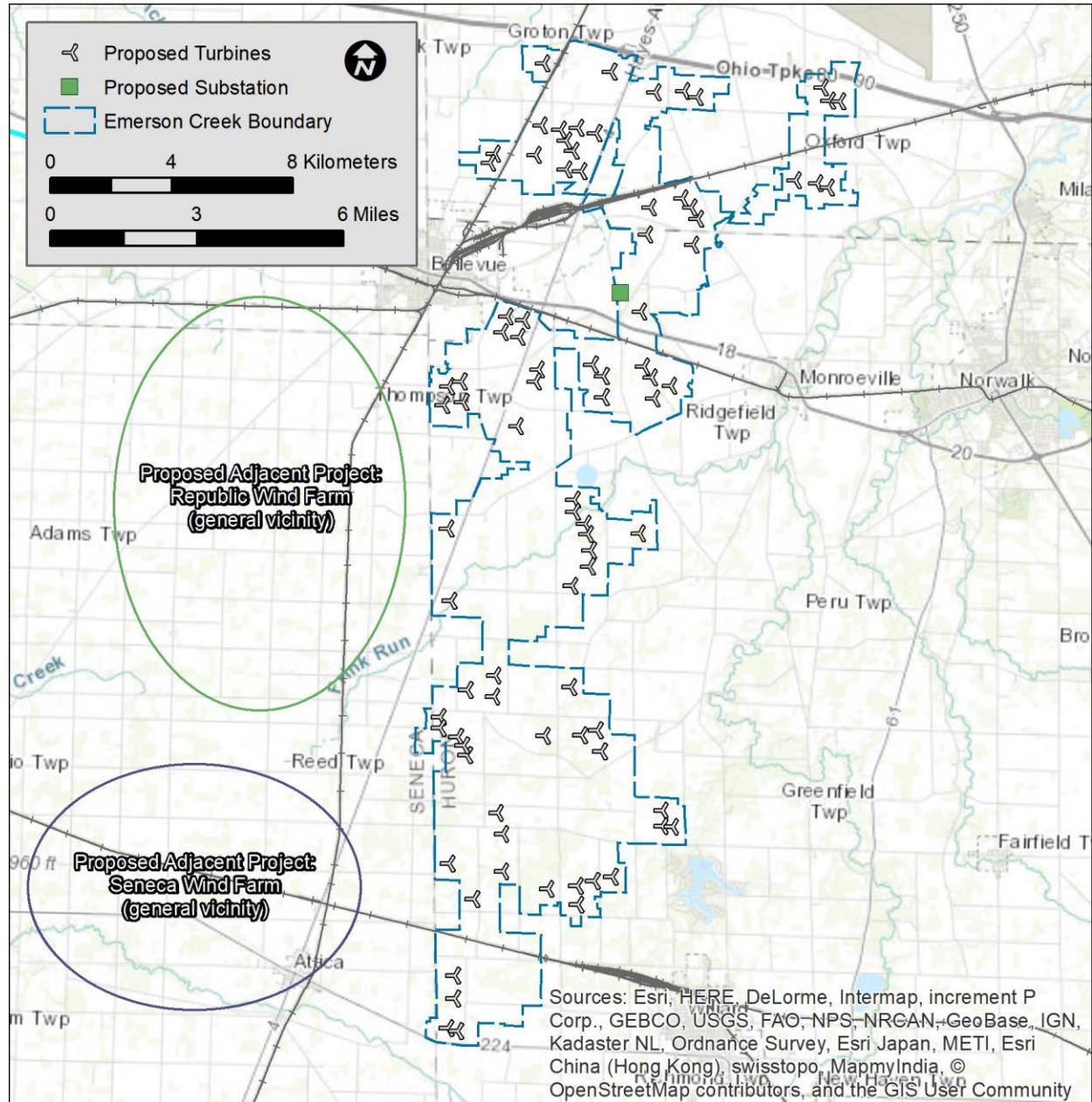


FIGURE 1: PROJECT OVERVIEW MAP

## 3.0 SOUND LEVEL LIMITS AND REGULATIONS

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Sound levels from wind power projects are regulated under Section 4906-4-09(F) of the Ohio Administrative Code ("OAC") which states:

(2) The facility shall be operated so that the facility noise contribution does not result in noise levels at any non-participating sensitive receptor within one mile of the project boundary that exceed the project area ambient nighttime average sound level (Leq) by five A-weighted decibels (dBA). During daytime operation only (seven a.m. to ten p.m.), the facility may operate at the greater of: the project area ambient nighttime Leq plus five dBA; or the validly measured ambient Leq plus five dBA at the location of the sensitive receptor. After measured ambient Leq plus five dBA at the location of the sensitive receptor. After commencement of commercial operation, the applicant shall conduct further review of the impact and possible mitigation of all project-related noise complaints through its complaint resolution process. Non-participating, as used in this context, refers to a property for which the owner has not signed a waiver or otherwise agreed to be subject to a higher noise level.

Based on ambient sound monitoring conducted at nine locations throughout the Emerson Creek project area (see Sections 4 & 5), the average existing nighttime background Leq in the area is 44 dBA. Applying the OPSB sound level limit results in a nighttime sound level limit of 49 dBA. As discussed in Section 4, the daytime sound levels are generally higher than the nighttime sound levels throughout the project area, so a higher daytime limit may be possible at some sensitive receptors, but for the purposes of this assessment, the nighttime sound level limit of 49 dBA is applied.

Section 4906-4-09(F) also limits the hours of construction activities that increase sound above ambient levels at sensitive receptors to the hours of 7 AM to 7 PM or dusk, whichever is later. Pile driving, blasting, and rock hammering are further restricted to the hours of 10 AM to 5 PM. There are also requirements regarding notification of property owners and tenants related to construction activities.



## 4.0 BACKGROUND SOUND LEVEL MONITORING PROCEDURES

Section 4906-4-08(A)(3)(e) of the OAC requires a preconstruction background noise study which includes daytime and nighttime sound level monitoring be provided with the project application. This Section provides a description of the procedures and results of background sound level monitoring that was conducted for this project.

Background sound levels were measured at nine locations around the project area. A map showing all nine locations is provided in Figure 2. Monitoring was conducted over two periods. The sound levels in the northern half of the project area (Monitors 1 through 5) were measured from March 14 to March 28, 2018, and sound levels in the southern half of the project area (Monitors 6 through 9) were measured from September 13 to September 27, 2018.

### 4.1 EQUIPMENT

Sound levels at each location were measured using either a Cesva SC-310 or a Svantec SV979 sound level meter, which are both ANSI/IEC Type 1 instruments. All meters logged A-weighted and 1/3 octave band equivalent continuous sound levels once each second. The Cesva meters were attached to external audio recorders (Roland R-05), while the Svantek recorded audio internally to aid in source identification and soundscape characterization.

Each sound level meter's microphone was mounted on a wooden stake at a height of approximately 1.5 meters (5 feet) and covered with a weather-resistant windscreen. The windscreen acts to reduce the influence of wind-induced self-noise on the measurements. The sound level meters were calibrated before and after each measurement period.

Wind data was logged at each site using an ONSET anemometer. This recorded average wind speed and wind gust speed data once per minute and was installed at microphone height (1.5 meters). Other meteorological data was taken from the National Weather Service ASOS station in Mansfield, Ohio (MFD).

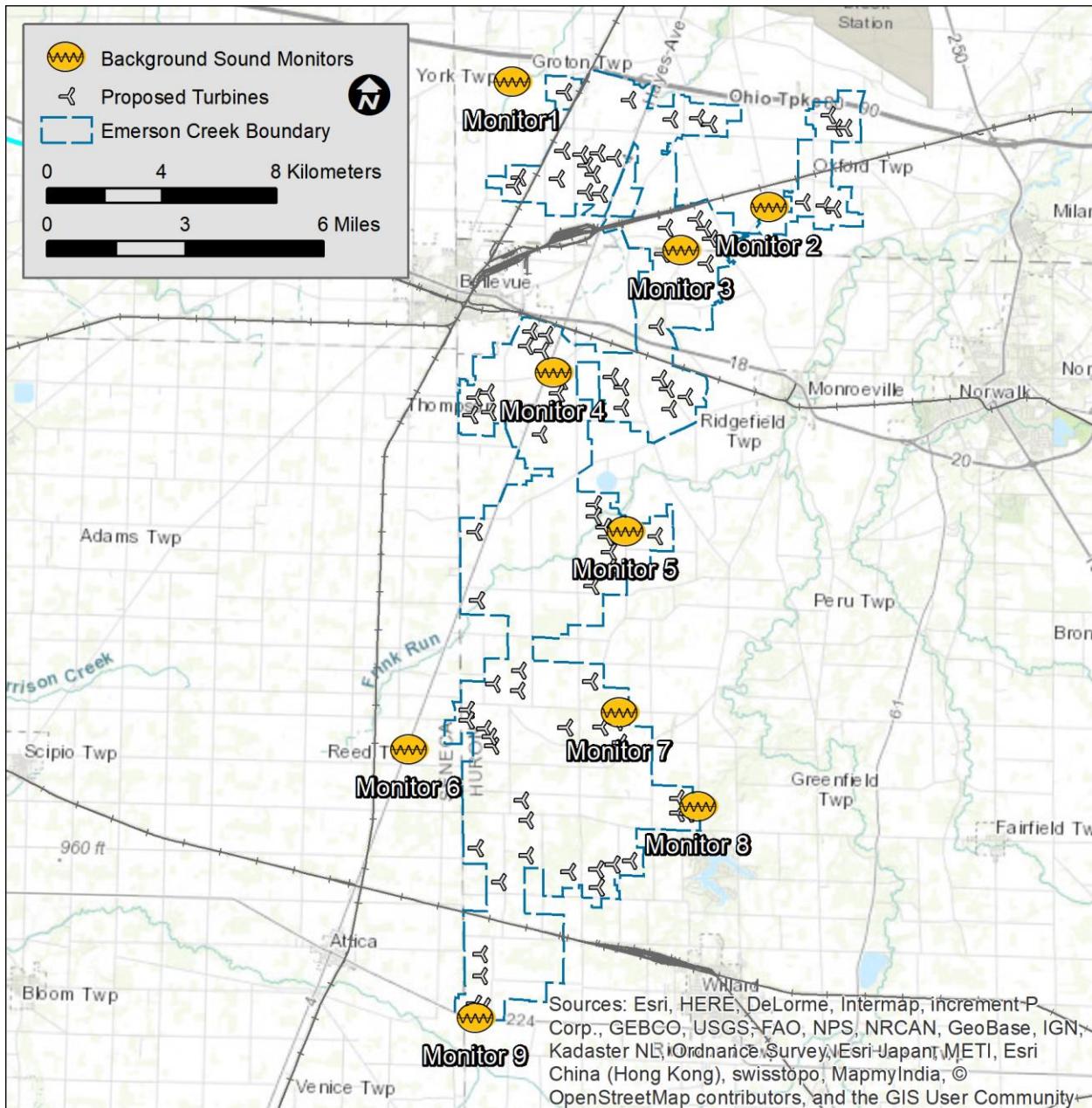


FIGURE 2: MAP OF BACKGROUND SOUND MONITOR LOCATIONS

## 4.2 LOCATION DESCRIPTIONS

### Monitor 1

Monitor 1 was located next to a dormant agricultural field just northwest of the project area. The monitor was situated approximately 240 meters (787 feet) south of Portland Road, 910 meters



(2,985 feet) south of I-80, and 2.5 kilometers (1.5 miles) west of Hanson Aggregates' Sandusky Quarry. The nearest proposed turbine to this monitor location is T1 approximately 1.9 kilometers (1.2 miles) to the east-southeast. The area surrounding the monitor is primarily agricultural with a small patch of forest adjacent to the monitor. I-80 was clearly audible at this site.

A picture of the monitoring setup is shown in Figure 3, and a map of the monitoring location is provided in Figure 4.



**FIGURE 3: PHOTOGRAPH OF MONITOR 1 LOOKING TO THE NORTHWEST (3-14-18)**

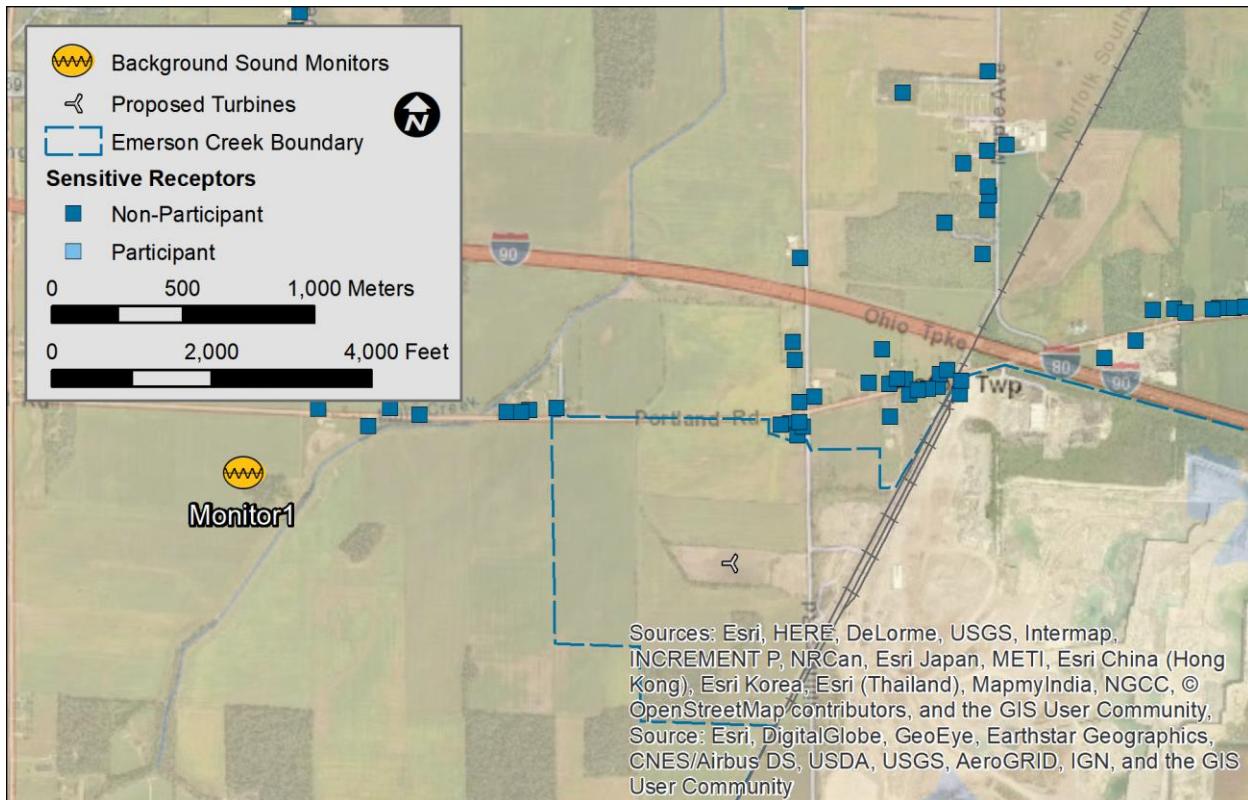


FIGURE 4: MAP OF MONITOR 1

## Monitor 2

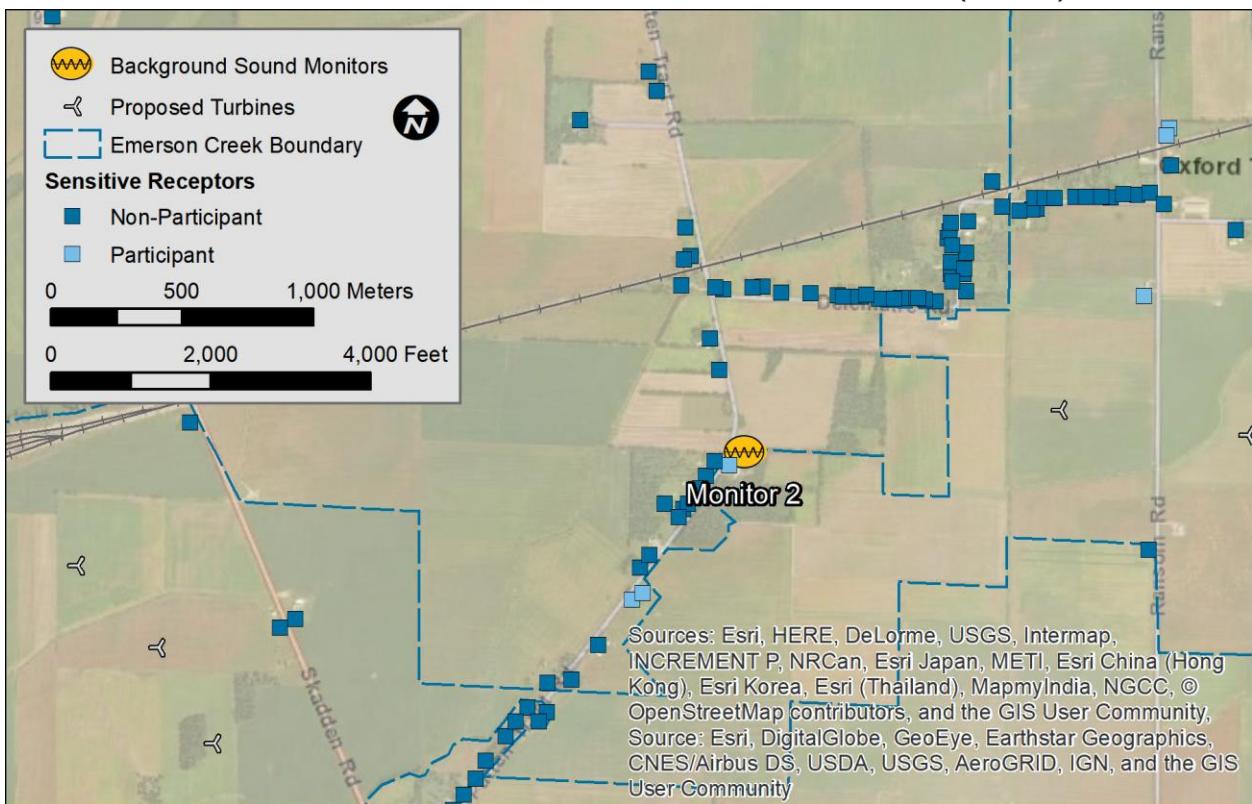
Monitor 2 was located in the northeast corner of the project area at a residence on Patten Tract Road. The monitor was situated approximately 62 meters (203 feet) east of Patten Tract Road, 725 meters (2,379 feet) south of a rail line, and 75 meters (246 feet) north of the residence that is located at the property. The nearest proposed turbine to this monitor location is T14 approximately 1.2 kilometers (0.75 miles) to the east. The area surrounding the monitor is primarily agricultural and rural residential with a small patch of forest to the east and south.

A picture of the monitoring setup is shown in Figure 5, and a map of the monitoring location is provided in Figure 6.





**FIGURE 5: PHOTOGRAPH OF MONITOR 2 LOOKING TO THE SOUTHWEST (3-14-18)**



**FIGURE 6: MAP OF MONITOR 2**

## Monitor 3

Monitor 3 was located in the north-central part of the project area on the Erie/Huron County Line. It was on a private property across from a residence on Yingling Road. The monitor was situated approximately 100 meters (328 feet) west of Yingling Road, 160 meters (525 feet) south of Edison Highway, and 1,430 meters (4,691 feet) south of a rail line. The nearest proposed turbine to this monitor location is T21 approximately 960 meters (2,165 feet) to the west. The area surrounding the monitor is primarily agricultural and rural residential.

A picture of the monitoring setup is shown in Figure 7, and a map of the monitoring location is provided in Figure 8.



FIGURE 7: PHOTOGRAPH OF MONITOR 3 LOOKING TO THE NORTH (3-14-18)

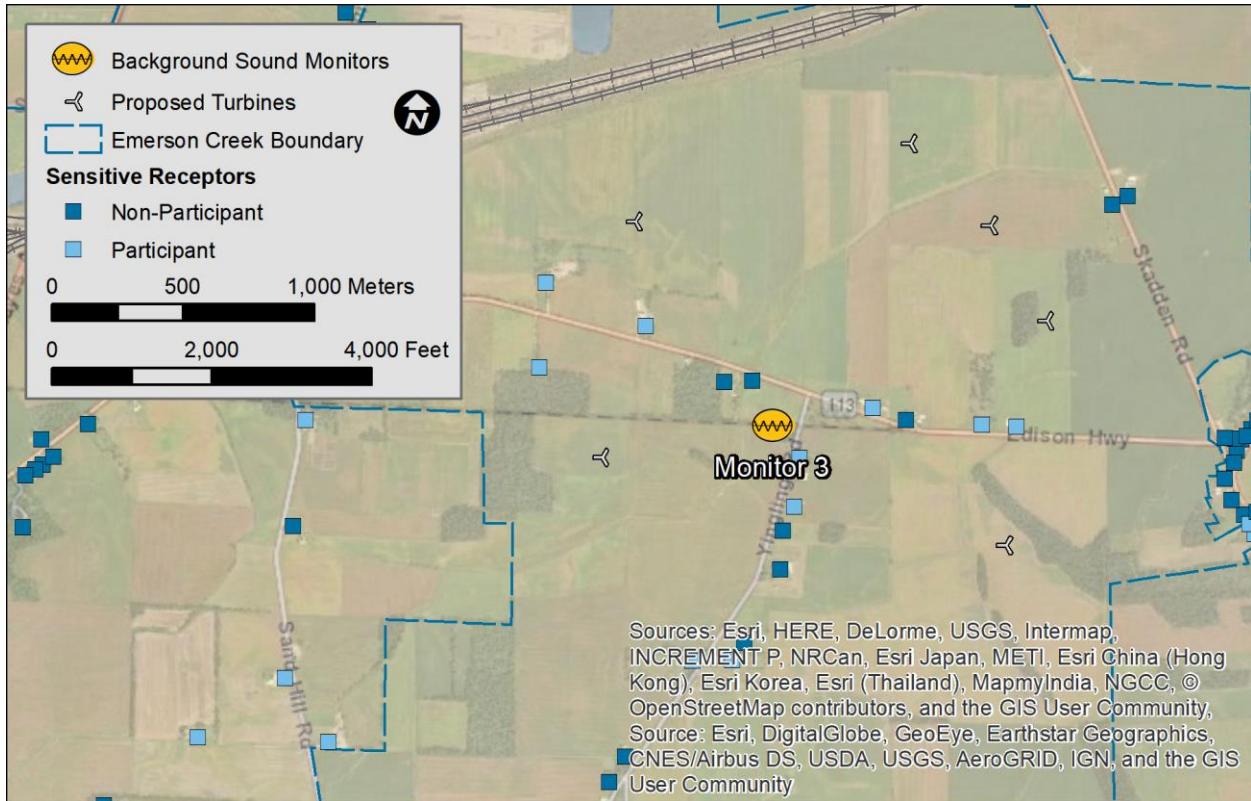


FIGURE 8: MAP OF MONITOR 3

#### Monitor 4

Monitor 4 was located in the central part of the project area adjacent to an agricultural field near the corner of OH-4 and Young Road. The monitor was situated approximately 225 meters (738 feet) east of OH-4 and 75 meters (246 feet) southeast of Young Road. The nearest proposed turbine to this monitor location is T29 approximately 385 meters (1,263 feet) to the southeast. The area surrounding the monitor is primarily agricultural and rural residential with a small patch of forest next to the nearby residences on Young Road.

A picture of the monitoring setup is shown in Figure 9, and a map of the monitoring location is provided in Figure 10.



FIGURE 9: PHOTOGRAPH OF MONITOR 4 LOOKING TO THE WEST (3-14-18)

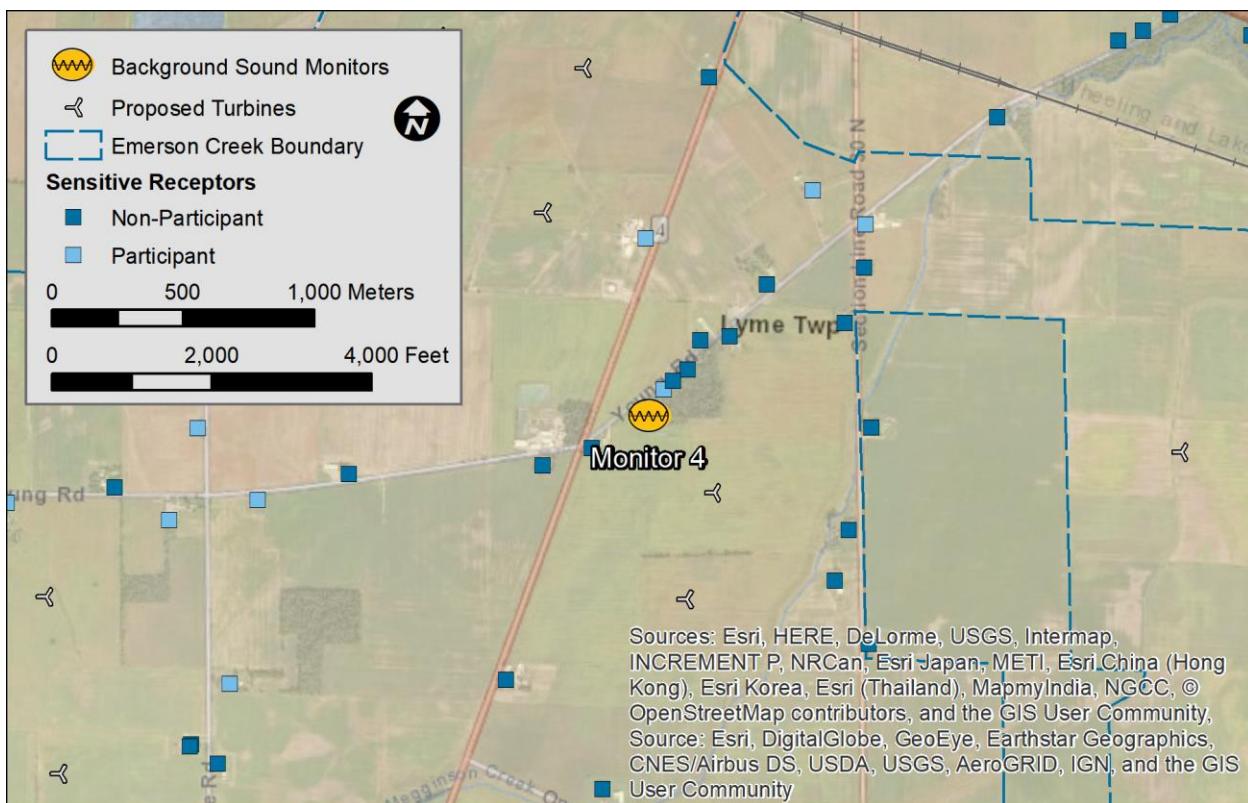


FIGURE 10: MAP OF MONITOR 4

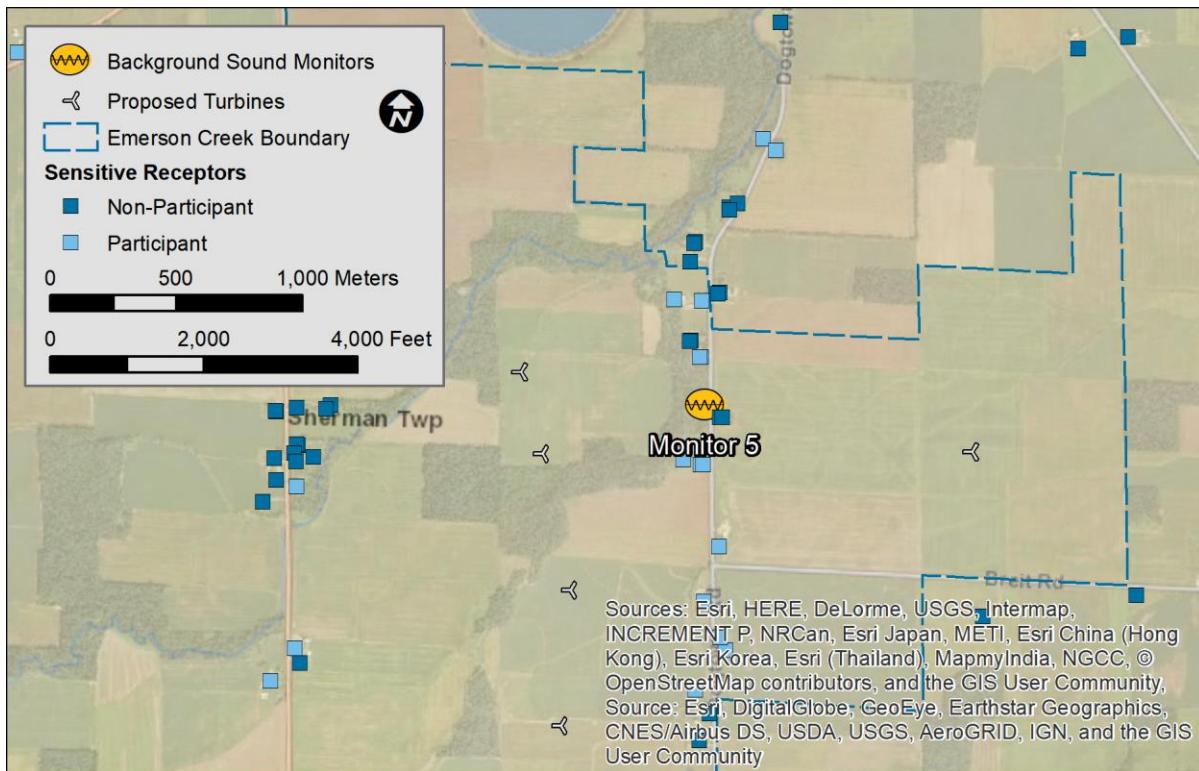
## Monitor 5

Monitor 5 was located in the central part of the project area adjacent to a forested area on Dogtown Road. The monitor was situated approximately 23 meters (75 feet) west of Dogtown Road and 1.5 kilometers (0.9 miles) south-southeast of Bellevue Reservoir. The nearest proposed turbine to this monitor location is T77 approximately 670 meters (2,198 feet) to the west. The area surrounding the monitor is primarily agricultural and rural residential with a forested area immediately adjacent to and west of the monitor.

A picture of the monitoring setup is shown in Figure 11, and a map of the monitoring location is provided in Figure 12.



FIGURE 11: PHOTOGRAPH OF MONITOR 5 LOOKING TO THE NORTHEAST (3-14-18)



**FIGURE 12: MAP OF MONITOR 5**

## Monitor 6

Monitor 6 was located near a residence and agricultural operation on OH-4 southwest of the project area. It was situated 600 meters (1,970 feet) north of OH-162 in Attica. The monitor was placed approximately 47 meters (154 feet) east of Ohio State Route 4, and 20 meters (66 feet) south of the residence. The location was 1,190 meters (3,905 feet) east of a rail line. The nearest proposed turbine to this monitor location is T53 approximately 2.3 kilometers (1.4 miles) to the northeast. The area surrounding the monitor is primarily agricultural with several large agricultural buildings on the property where the monitor was installed. The closest was located approximately 36 meters (120 feet) from the monitor.

A picture of the monitoring setup is shown in Figure 13, and a map of the monitoring location is provided in Figure 14.



FIGURE 13: PHOTOGRAPH OF MONITOR 6 LOOKING TO THE SOUTHEAST (9-13-18)

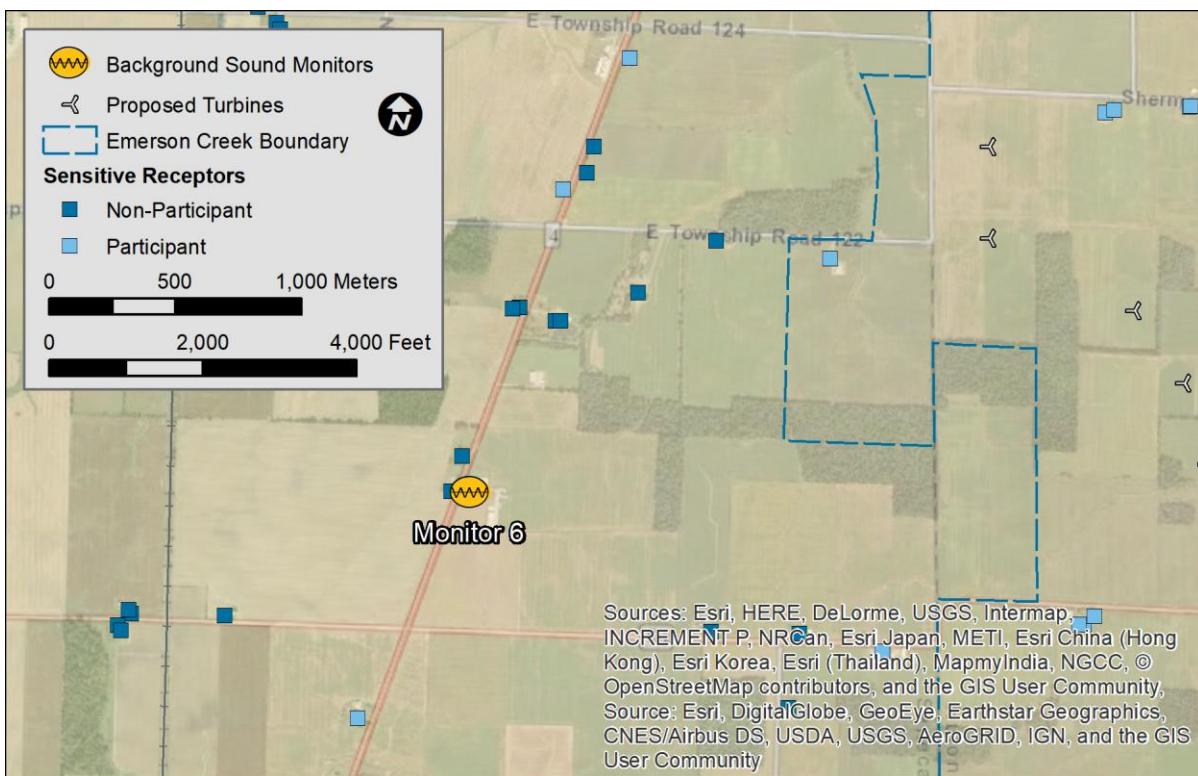


FIGURE 14: MAP OF MONITOR 6

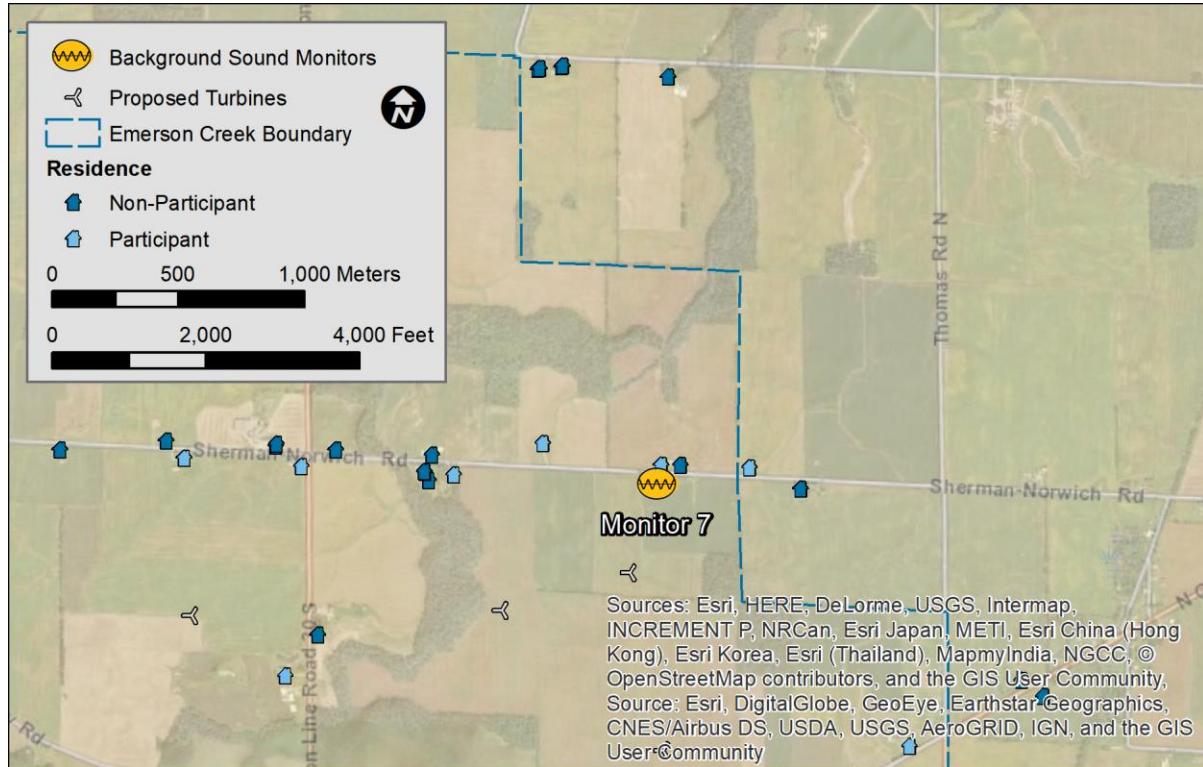
## Monitor 7

Monitor 7 was located at a residence on Sherman-Norwich Road in the town of Willard in the south-central part of the project area. It was situated 1,390 meters (4,560 feet) east of Section Line Road 30 S and 37 meters (121 feet) south of Sherman-Norwich Road. The property featured a house and several outbuildings. The house was the closest and situated 20 meters (66 feet) west-northwest of the monitor. The remaining outbuildings were at least 45 meters (148 feet) away, generally to the west and southwest. The broader area surrounding the monitor was agricultural, with residences scattered along Sherman-Norwich Road. The nearest proposed turbine to this monitor location is T54 approximately 370 meters (1,214 feet) to the south-southwest.

A picture of the monitoring setup is shown in Figure 15, and a map of the monitoring location is provided in Figure 16.



FIGURE 15: PHOTOGRAPH OF MONITOR 7 LOOKING TO THE SOUTH (9-13-18)



**FIGURE 16: MAP OF MONITOR 7**

## Monitor 8

Monitor 8 was located at a residence on Town Line Rd 26 in Willard, Ohio in the southeastern portion of the project area. It was positioned 40 meters (131 feet) west of Town Line Rd 26, and 21 meters (69 feet) north of the residence on the property. The area surrounding the residence was largely agricultural. Additionally, a golf course was positioned 330 meters (108 feet) to the south, and Holiday Lake and associated residences were located approximately 1,308 meters (4,292 feet) to the south. The nearest proposed turbine to this monitor location is T79 approximately 435 meters (1,427 feet) to the southwest.

A picture of the monitoring setup is shown in Figure 17, and a map of the monitoring location is provided in Figure 18.



FIGURE 17: PHOTOGRAPH OF MONITOR 8 LOOKING TO THE NORTHWEST (9-13-18)

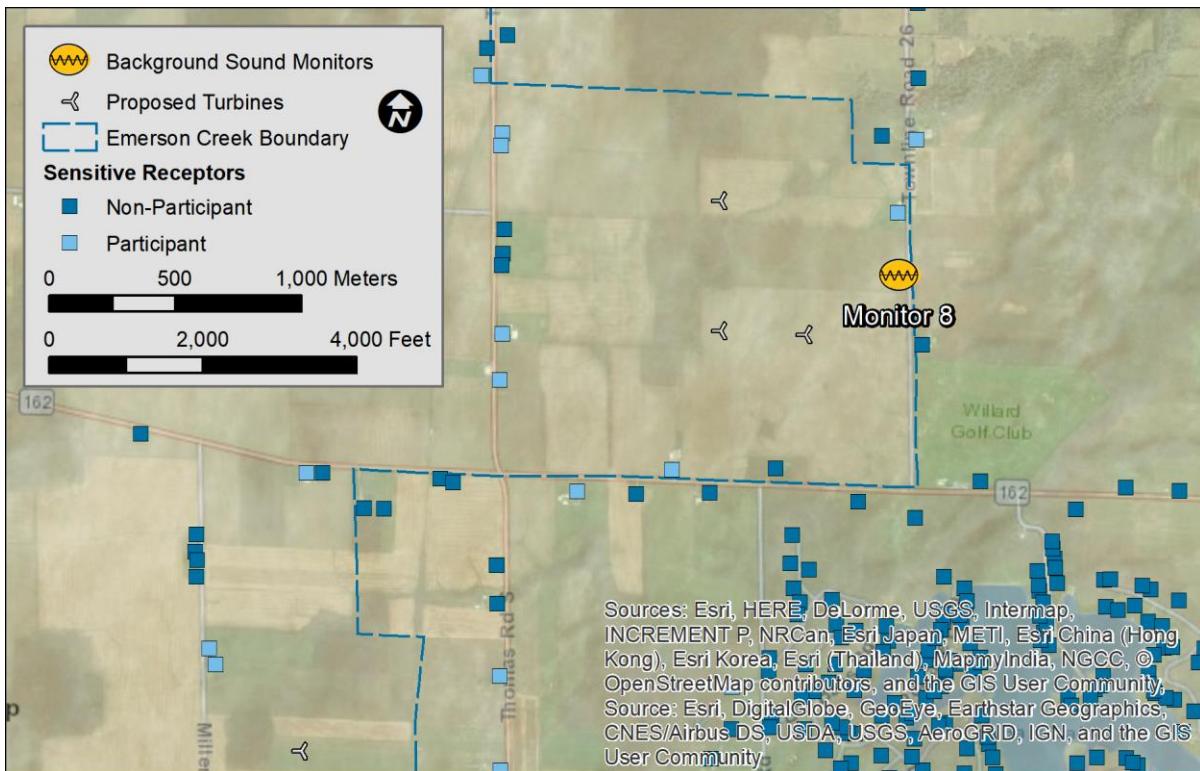


FIGURE 18: MAP OF MONITOR 8

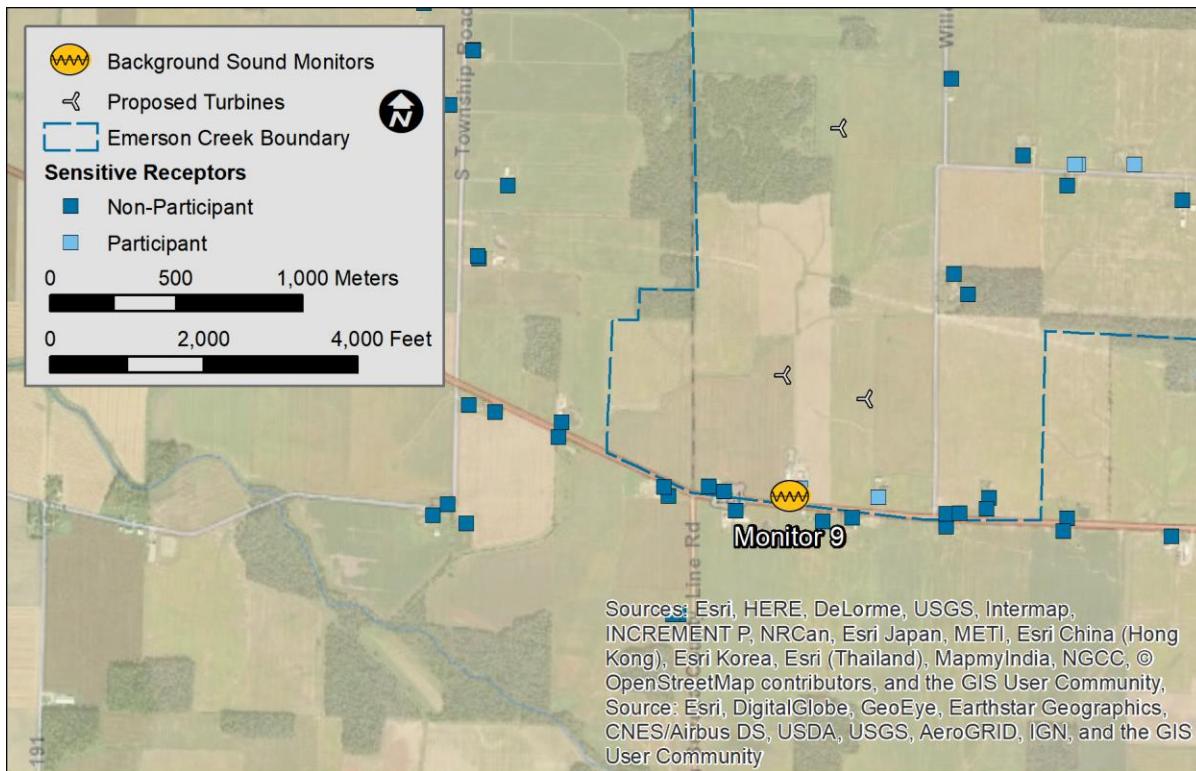
## Monitor 9

Monitor 9 was east of Attica, approximately 60 meters (197 feet) north of US-224, along the southern border of the project boundary, and 390 meters (1,280 feet) west of the Huron-Seneca county line. The site was located at a farm and house, with agricultural buildings and infrastructure, the closest located approximately 30 meters (164 feet) north of the monitor location. The broader area near the monitoring location is predominately farmland, with other residences and farming operations dispersed along US-224. The nearest proposed turbines to this monitor location are T82 approximately 480 meters (1,575 feet) to the north, and T83 approximately 500 meters (1640 feet) to the northeast.

A picture of the monitoring setup is shown in Figure 19, and a map of the monitoring location is provided in Figure 20.



FIGURE 19: PHOTOGRAPH OF MONITOR 9 LOOKING TO THE NORTHEAST (9-13-18)



**FIGURE 20: MAP OF MONITOR 9**

## 4.3 DATA PROCESSING

Following the collection of the meters, data was downloaded, processed, and summarized into 10-minute, overall day, overall night, and full monitoring-period length durations. For each 10-minute period, equivalent average ( $L_{eq}$ ), upper 10<sup>th</sup> percentile( $L_{10}$ ), median ( $L_{50}$ ), and lower 10<sup>th</sup> percentile ( $L_{90}$ ) sound levels were also calculated.

During analysis, sound level data was removed from the dataset to maintain the integrity of the background sound levels during periods that would cause false sound level readings or artificially high levels. These periods included:

- Wind speeds above 11 mph (5 m/s);
- Temperatures below 14°F;
- Precipitation and thunderstorm events;
- Anomalous events; or
- Equipment interactions by RSG staff, other people, or animals.

Monitors located near railway crossings also had train crossing horns removed from the data.



## 5.0 MONITORING RESULTS

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### 5.1 RESULTS SUMMARY

#### Meteorology

Wind speed and gust speed varied by location. A summary of the maximum wind speeds and gusts recorded at microphone height at all sites is presented in Table 2. Monitor 5 and Monitor 8 saw the least amount of wind, while Monitors 1, 2, and 3 in the northern portion of the project area saw the most wind. Generally, the locations that were monitored in March experienced more wind over the monitoring period than the locations that were monitored in September.

**TABLE 2: SUMMARY OF WIND SPEED DATA COLLECTED AT EACH MONITOR AT MICROPHONE HEIGHT**

| Location  | Max Gust Speed |      | Average Wind Speed |     |
|-----------|----------------|------|--------------------|-----|
|           | m/s            | mph  | m/s                | mph |
| Monitor 1 | 12.6           | 28.1 | 2.1                | 4.6 |
| Monitor 2 | 12.3           | 27.6 | 1.8                | 4.1 |
| Monitor 3 | 13.4           | 29.9 | 2.6                | 5.7 |
| Monitor 4 | 10.6           | 23.6 | 1.1                | 2.5 |
| Monitor 5 | 9.1            | 20.3 | 0.8                | 1.8 |
| Monitor 6 | 10.1           | 22.5 | 0.8                | 1.8 |
| Monitor 7 | 11.1           | 24.8 | 1.0                | 2.2 |
| Monitor 8 | 7.6            | 16.9 | 0.4                | 0.9 |
| Monitor 9 | 11.1           | 24.8 | 0.9                | 2.1 |

Precipitation events were obtained from nearby airport data and were corroborated through both analysis of the sound level spectrograms and from the audio recordings. During the March monitoring period there was precipitation for a portion of the day on March 17, during the night on March 21, and during the day on March 27 through the night of March 28. During the September monitoring period there was a short period of rain on September 19, and during the nights of September 25 and 26.

Temperature is only a concern if it drops below 14°F, which was not an issue during either the March or September monitoring period.

#### Background Sound Level Summary

Daytime, nighttime, and overall summaries are provided in this Section, followed by time-history graphs for each monitor in Section 5.2.

Sound levels for each location are summarized as daytime, nighttime, and entire period levels in Table 3. They include equivalent continuous average ( $L_{eq}$ ), the 10th-percentile ( $L_{90}$ ), the 50th-percentile ( $L_{50}$ ), and 90th-percentile ( $L_{10}$ ) levels. The nighttime  $L_{eq}$  across the project area ranged from 35 dBA at Monitor 7 to 52 dBA at Monitors 6 and 9. The average nighttime  $L_{eq}$  across the project area was 44 dBA. As discussed in Section 3.0, this sets the nighttime sound level limit for Emerson Creek at 49 dBA. The daytime  $L_{eq}$  across the project area ranged from 41 dBA at Monitor 8 to 56 dBA at Monitors 6 and 9. The average daytime  $L_{eq}$  across the project area was 48 dBA.

**TABLE 3: SUMMARY OF BACKGROUND SOUND LEVELS BY LOCATION AND AVERAGED ACROSS THE PROJECT SITE<sup>1</sup>**

| Location       | Sound Pressure Level (dBA) |          |          |           |          |          |          |           |          |          |          |          |
|----------------|----------------------------|----------|----------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|
|                | Overall                    |          |          |           | Day      |          |          |           | Night    |          |          |          |
|                | $L_{eq}$                   | $L_{90}$ | $L_{50}$ | $L_{10}$  | $L_{eq}$ | $L_{90}$ | $L_{50}$ | $L_{10}$  | $L_{eq}$ | $L_{90}$ | $L_{50}$ | $L_{10}$ |
| Monitor 1      | 51                         | 42       | 49       | 54        | 51       | 42       | 50       | 54        | 50       | 42       | 48       | 54       |
| Monitor 2      | 46                         | 33       | 40       | 49        | 47       | 35       | 42       | 50        | 44       | 31       | 38       | 46       |
| Monitor 3      | 46                         | 35       | 42       | 49        | 47       | 37       | 43       | 50        | 45       | 33       | 41       | 48       |
| Monitor 4      | 45                         | 34       | 41       | 48        | 45       | 35       | 41       | 49        | 43       | 32       | 39       | 46       |
| Monitor 5      | 43                         | 28       | 34       | 45        | 44       | 29       | 36       | 47        | 40       | 27       | 32       | 41       |
| Monitor 6      | 55                         | 29       | 43       | 58        | 56       | 34       | 46       | 59        | 52       | 25       | 38       | 54       |
| Monitor 7      | 40                         | 21       | 29       | 39        | 42       | 24       | 31       | 41        | 35       | 20       | 25       | 35       |
| Monitor 8      | 40                         | 24       | 34       | 40        | 41       | 27       | 34       | 41        | 36       | 22       | 31       | 37       |
| Monitor 9      | 55                         | 30       | 51       | 58        | 56       | 34       | 51       | 59        | 52       | 25       | 47       | 53       |
| <b>Average</b> |                            |          |          | <b>48</b> |          |          |          | <b>44</b> |          |          |          |          |

## 5.2 MONITORING RESULTS BY LOCATION

For display purposes, the one second data that was collected is displayed in 10-minute summarized values in the time history-graphs to show overall trends. Sound levels are plotted along with ambient temperature for the data collected in March, and wind speed to show relating trends. Time periods during which data was removed for the sound level summary presented in Section 5.1 are indicated with color-coded markers. Sound level data during periods when the entire 10-minute interval was excluded for wind, rain, temperature, or anomalies are still present in these graphs as lighter colors, with the darker colors representing 10-minute intervals where

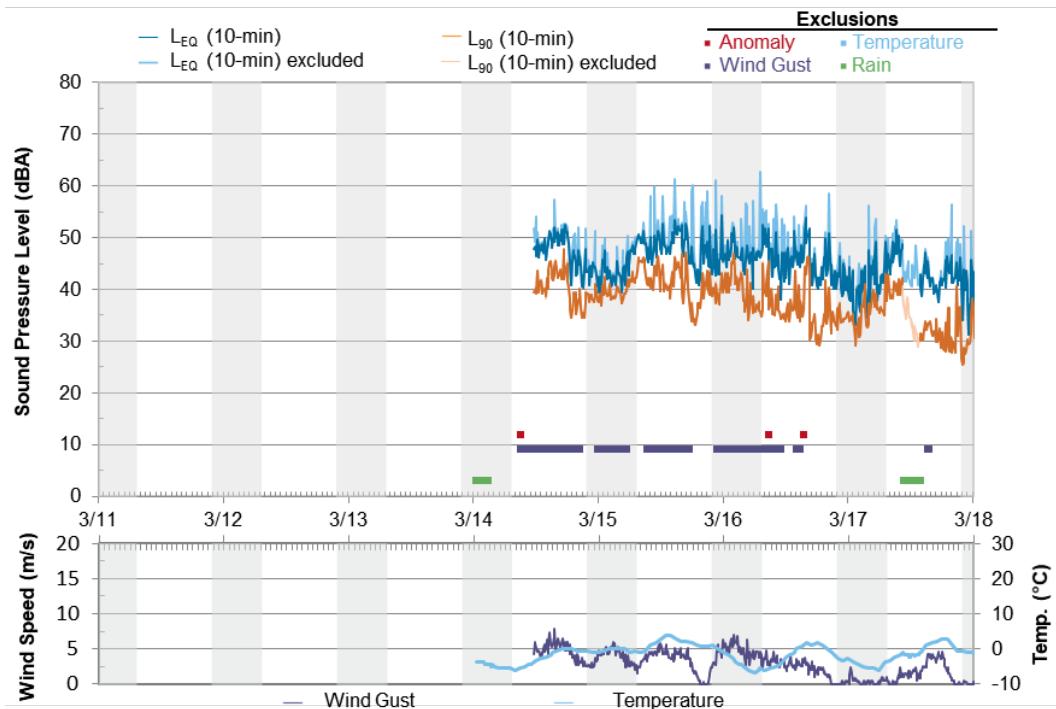
<sup>1</sup> There was some high frequency biogenic sound during the September monitoring period (Monitors 6 through 9). This type of sound is not a strong component of wind turbine noise and can have a strong influence on the overall background  $L_{eq}$ . It was therefore filtered out of the data during periods where it was present using an ANS weighting (defined in ANSI S12.100, “Methods to Define and Measure the Residual Sound in Protected Natural and Quiet Residential Areas”) which simply discounts sound levels above the 1 kHz 1/1 octave band, the frequency range in which the biogenic sounds occur.



there were no data exclusions or only partial data exclusions.<sup>2</sup> The duration of each time history graph in Section 5.2 is one week, and each graph exhibits day/night shading where night is defined as 22:00 to 7:00 and shaded grey.

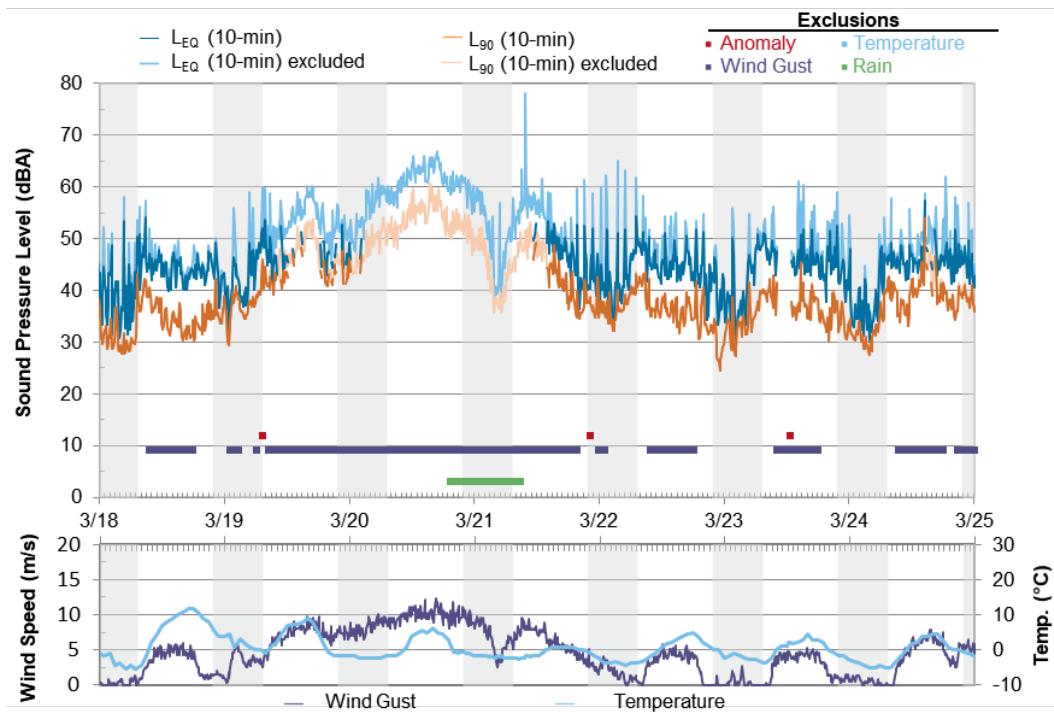
## Monitor 1

Background sound level monitoring results for Monitor 1 are shown in Figure 21 through Figure 23. Being at the edge of a field and in the open, it was one of the windier sites. Background sound levels were driven by geophonic sounds such as wind passing over foliage and distant traffic on I-80. The daytime and nighttime  $L_{eq}$  were 51 and 50 dBA, respectively. The small difference between daytime and nighttime sound levels is due primarily to the consistent source of traffic noise from I-80.

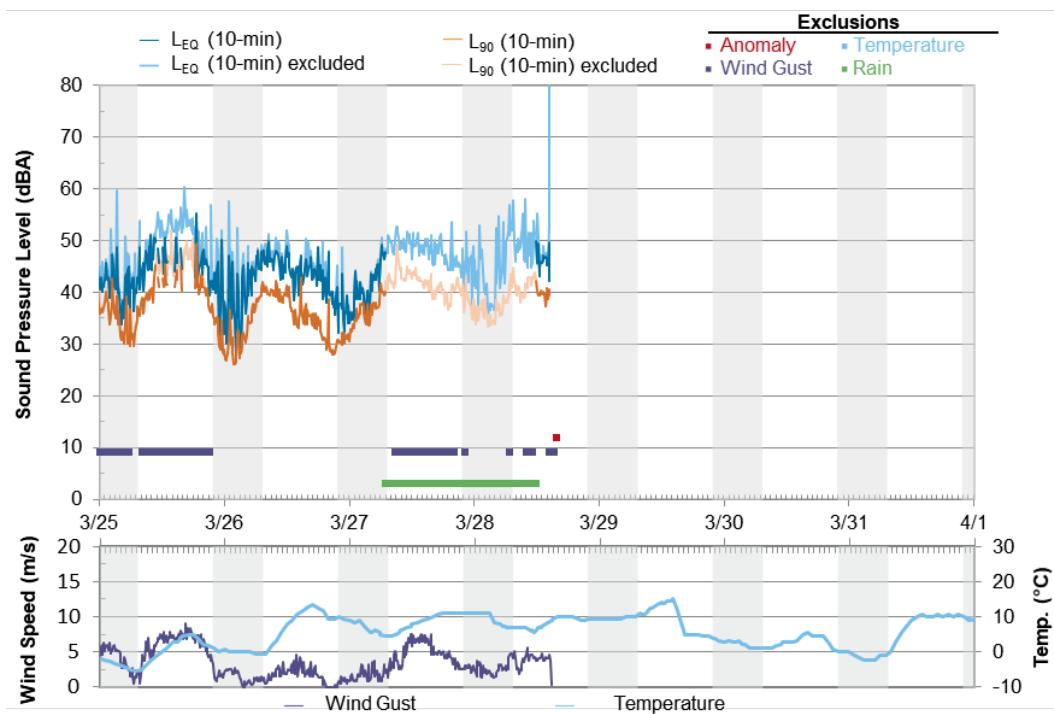


**FIGURE 21: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 13 TO MARCH 18**

<sup>2</sup> For some 10-minute periods, shorter durations within the 10-minutes are excluded due to wind, rain, temperature, or anomalies, but the rest of the 10-minute interval is still used in the summary. These periods are shown in the darker colors ( $L_{eq}$  and  $L_{90}$ ) as only some of the 10-minute period was excluded.



**FIGURE 22: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 18 TO MARCH 25**



**FIGURE 23: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 25 TO MARCH 28**



## Monitor 2

Background sound level monitoring results for Monitor 2 are shown in Figure 24 through Figure 26. Monitor 2 was also one of the windier sites. Background sound levels were driven by geophonic sounds and local traffic on Patten Tract Road. There was also occasional sound from train passbys on the nearby rail line. The daytime and nighttime  $L_{eq}$  were 47 and 44 dBA, respectively.

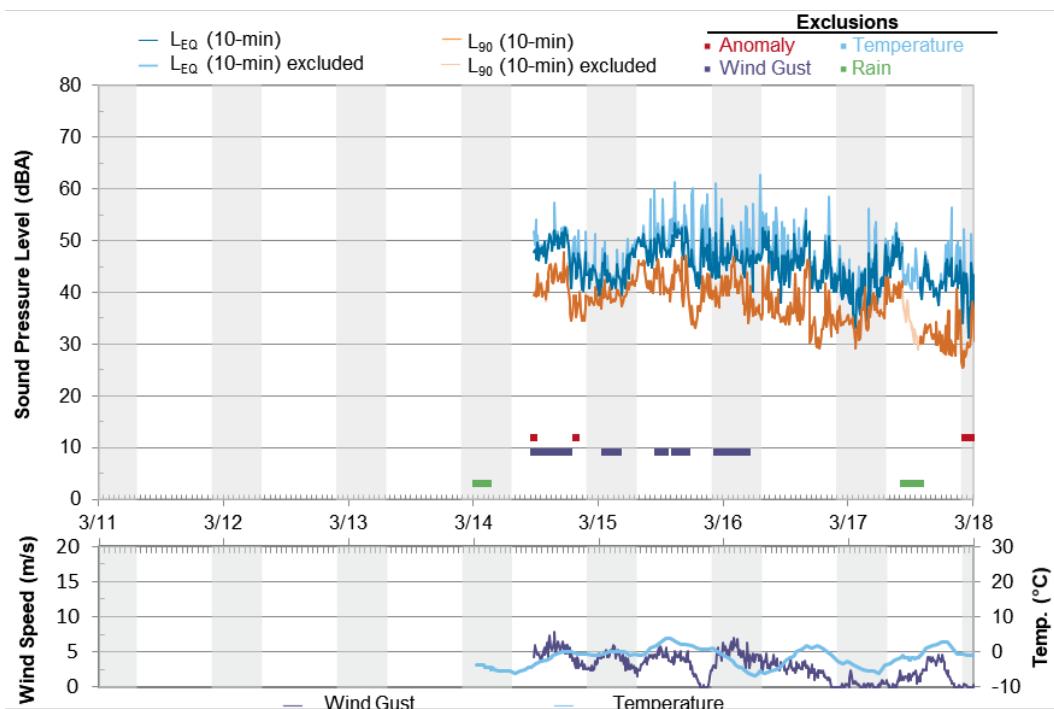
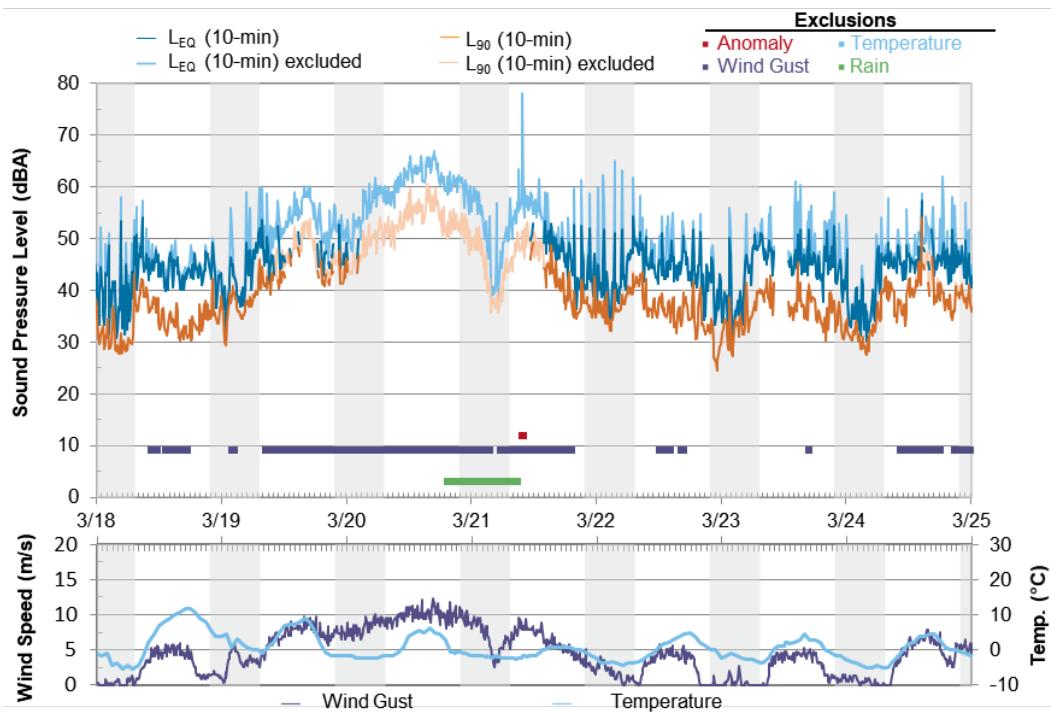
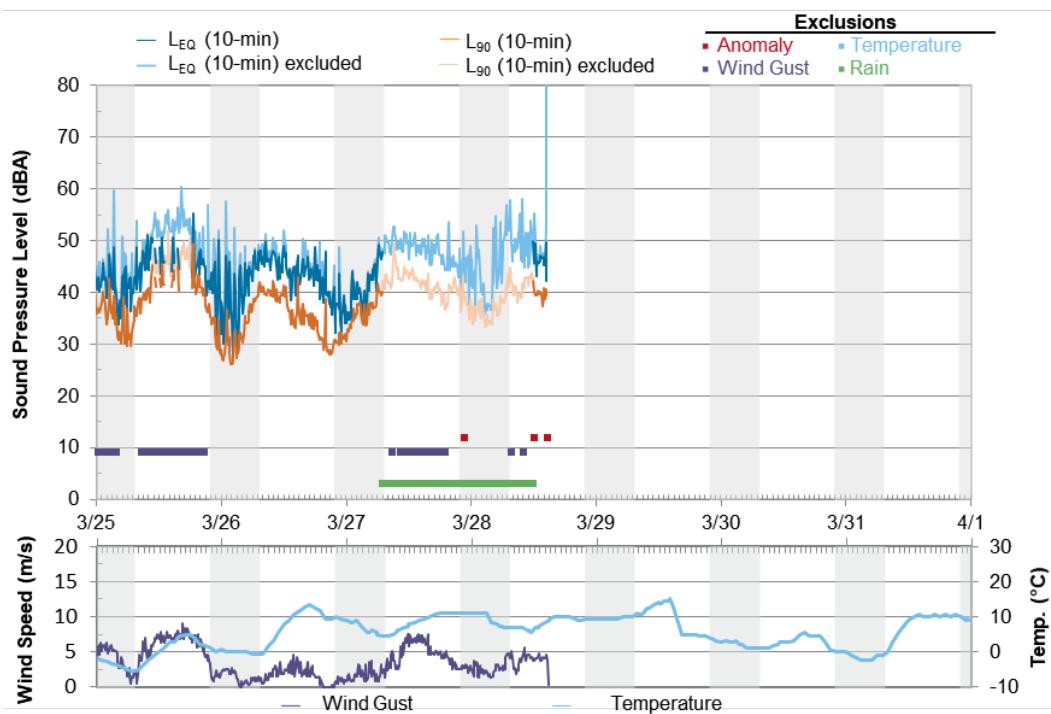


FIGURE 24: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 13 TO MARCH 18



**FIGURE 25: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 18 TO MARCH 25**

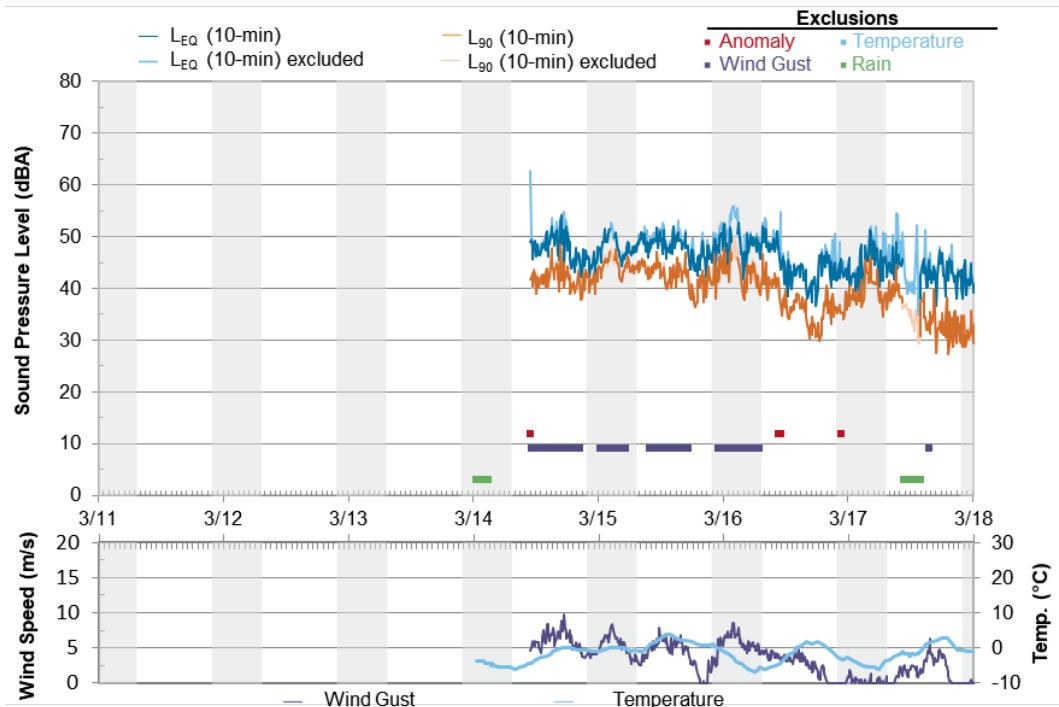


**FIGURE 26: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 25 TO MARCH 28**

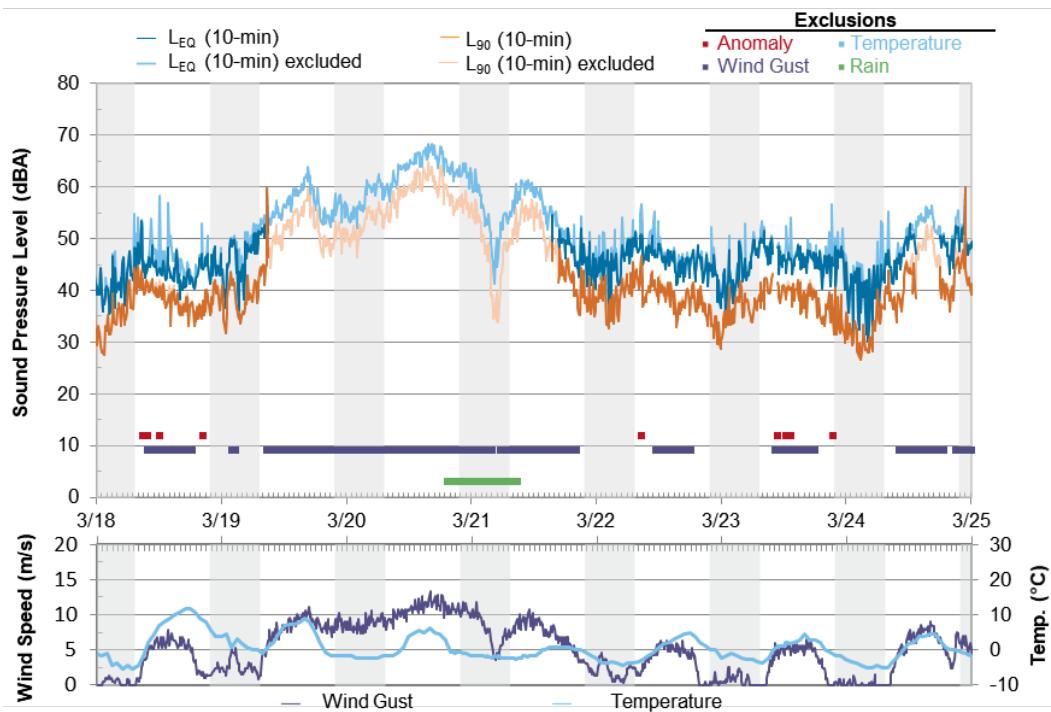


## Monitor 3

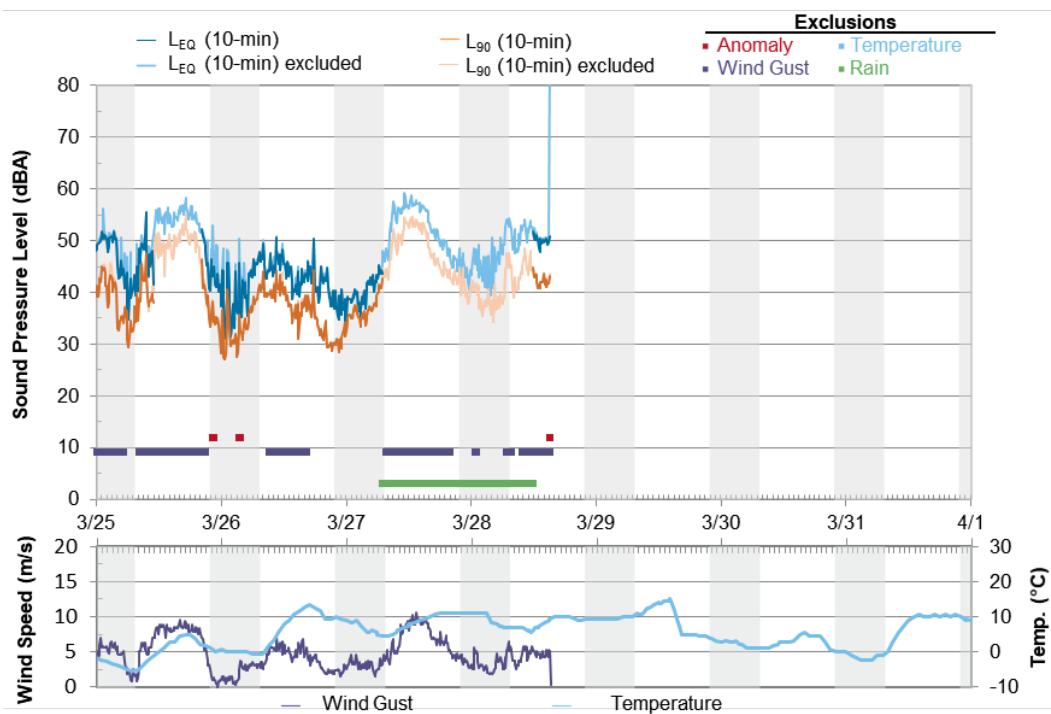
Background sound level monitoring results for Monitor 3 are shown in Figure 27 through Figure 29. Monitor 3 was the windiest site monitored. Background sound levels were driven by geophonic sounds and local traffic on Yingling Road and Edison Highway. There was also occasional sound from train passbys on the nearby rail line. This site was very similar in soundscape character to that of Monitor 2. The daytime and nighttime  $L_{eq}$  were 47 and 45 dBA, respectively.



**FIGURE 27: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 13 TO MARCH 18**



**FIGURE 28: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 18 TO MARCH 25**

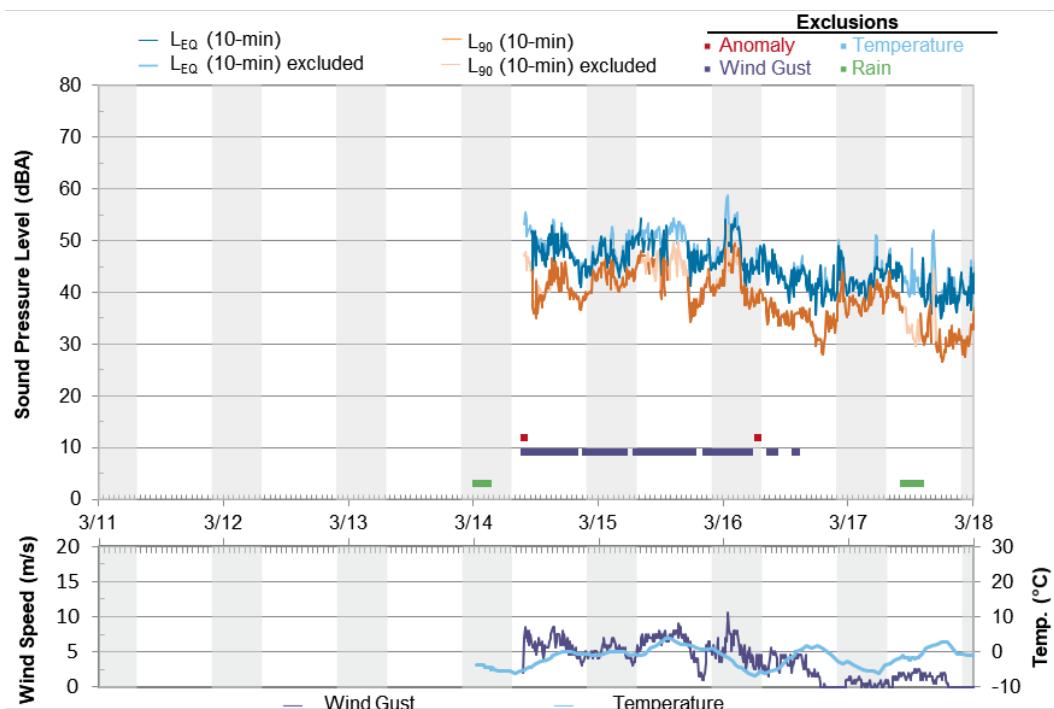


**FIGURE 29: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 25 TO MARCH 28**



## Monitor 4

Background sound level monitoring results for Monitor 4 are shown in Figure 30 through Figure 32. It was periodically windy at this site, but less so than some other sites. Background sound levels were driven by traffic on OH-4, local traffic on Young Road, and geophonic sounds. There was also occasional sound from train passbys on the nearby rail line. The daytime and nighttime  $L_{eq}$  were 45 and 43 dBA, respectively.



**FIGURE 30: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 13 TO MARCH 18**

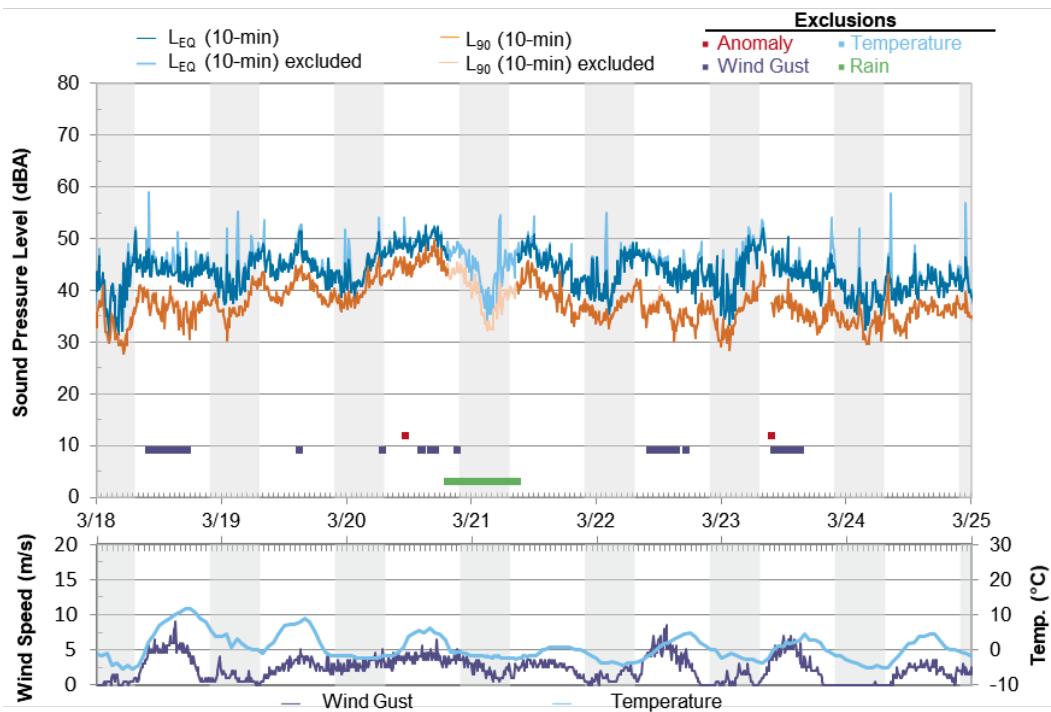


FIGURE 31: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 18 TO MARCH 25

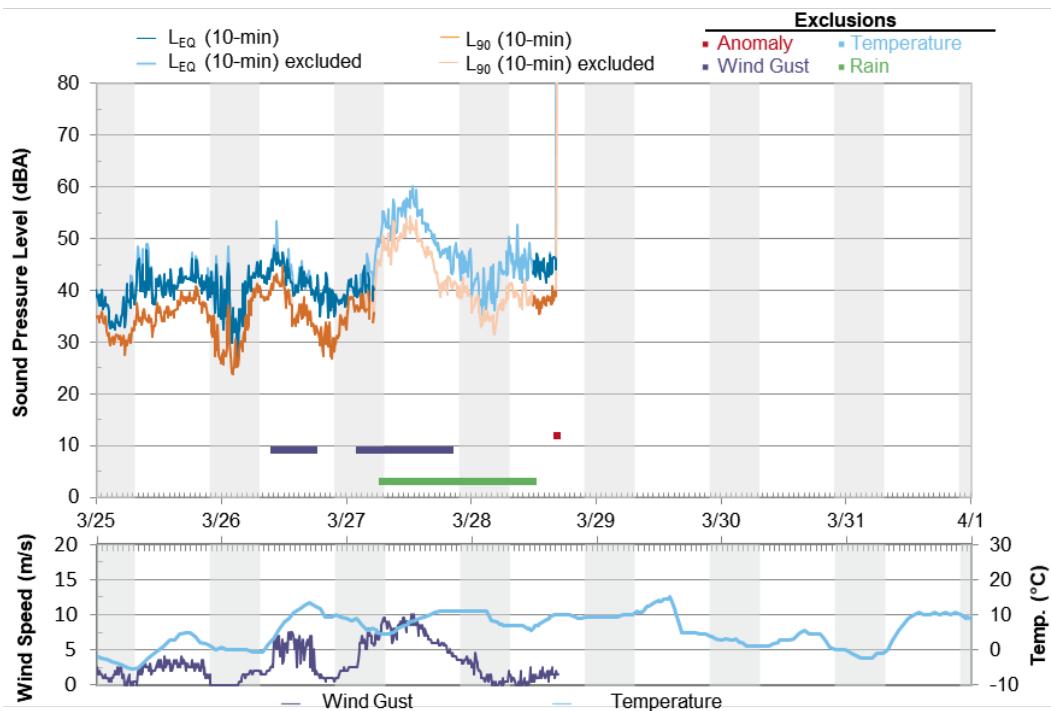
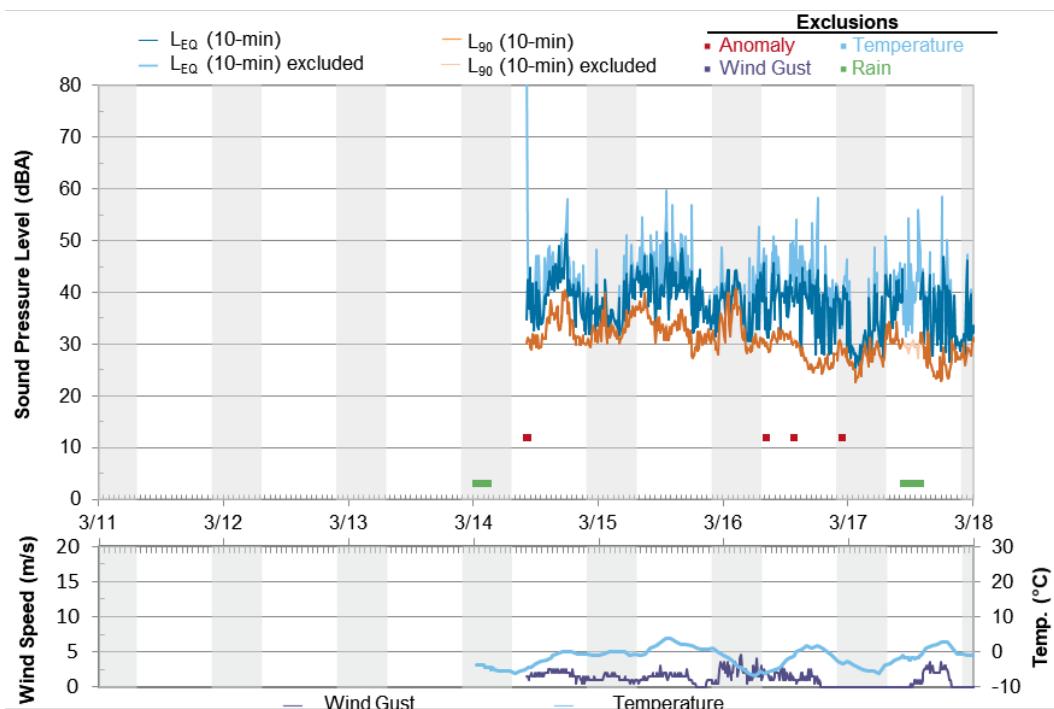


FIGURE 32: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 25 TO MARCH 28

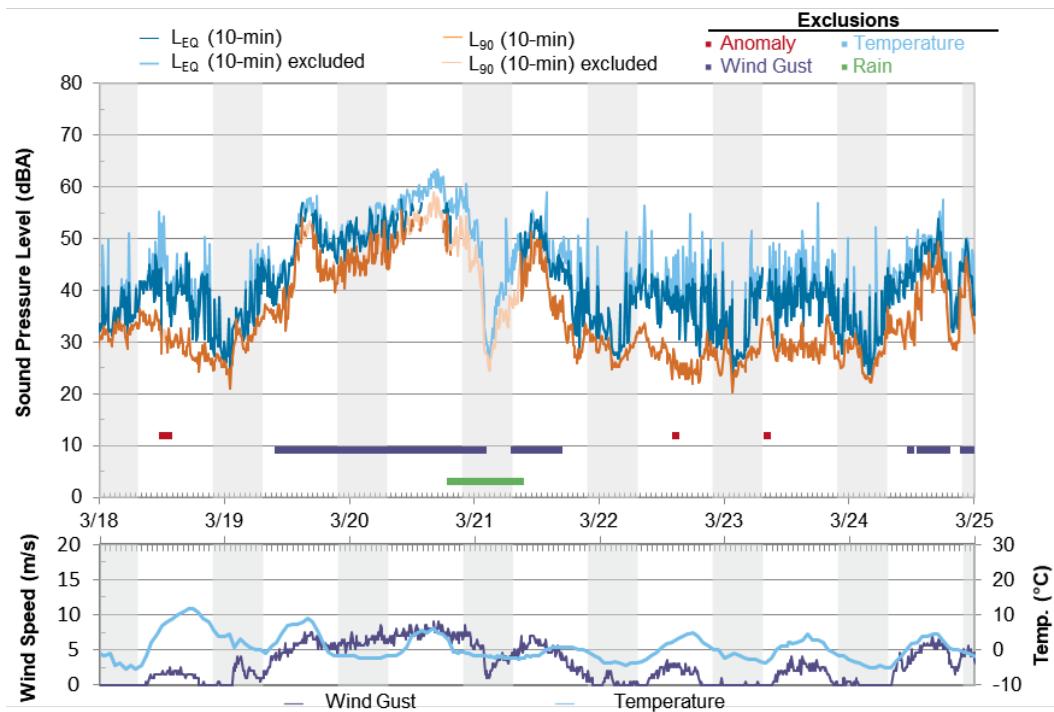


## Monitor 5

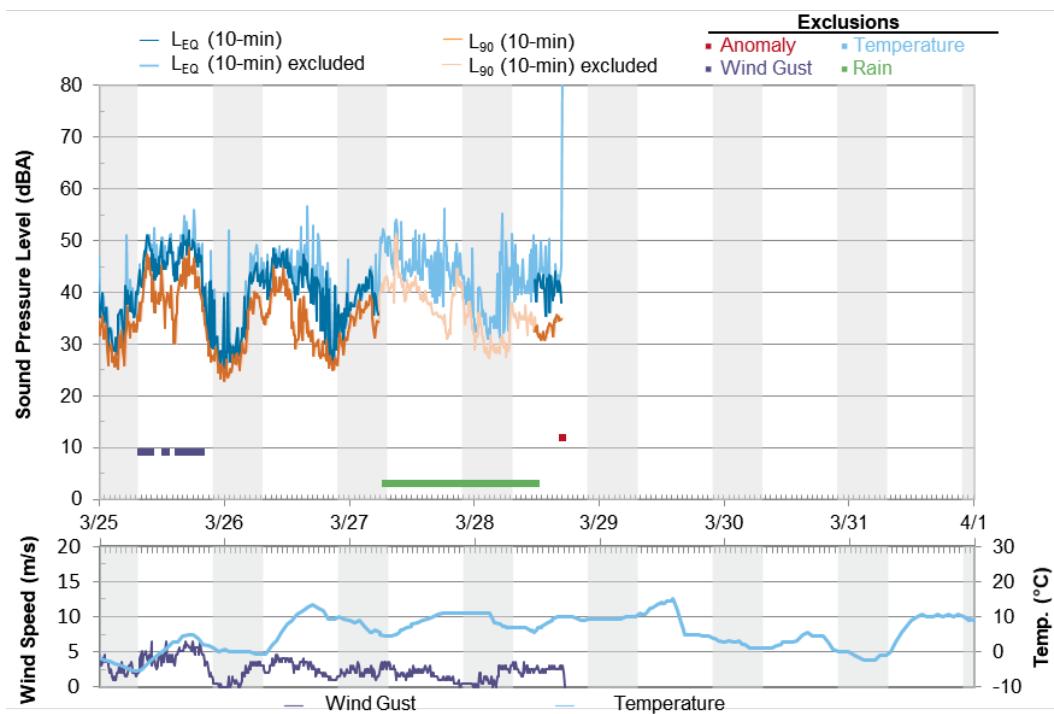
Background sound level monitoring results for Monitor 5 are shown in Figure 33 through Figure 35. Monitor 5 was one of the less windy sites and was more rural than the other locations. Background sound levels were driven by geophonic sounds, occasional biogenic sounds (e.g. bird calls), and occasional local traffic on Dogtown Road. The daytime and nighttime  $L_{eq}$  were 44 and 40 dBA, respectively.



**FIGURE 33: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 13 TO MARCH 18**



**FIGURE 34: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 18 TO MARCH 25**

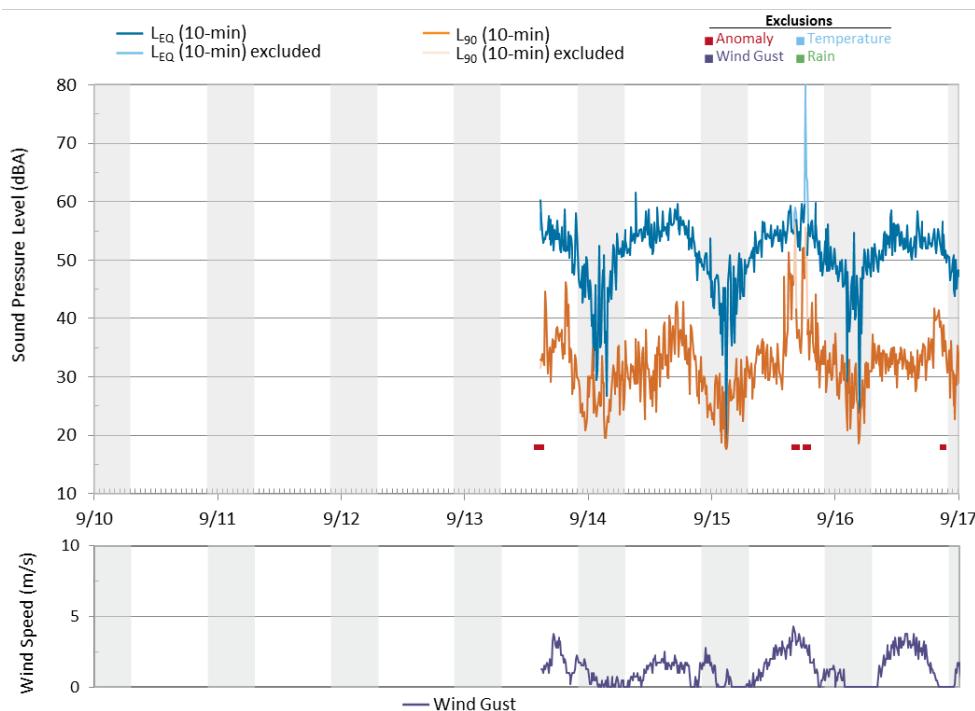


**FIGURE 35: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 25 TO MARCH 28**

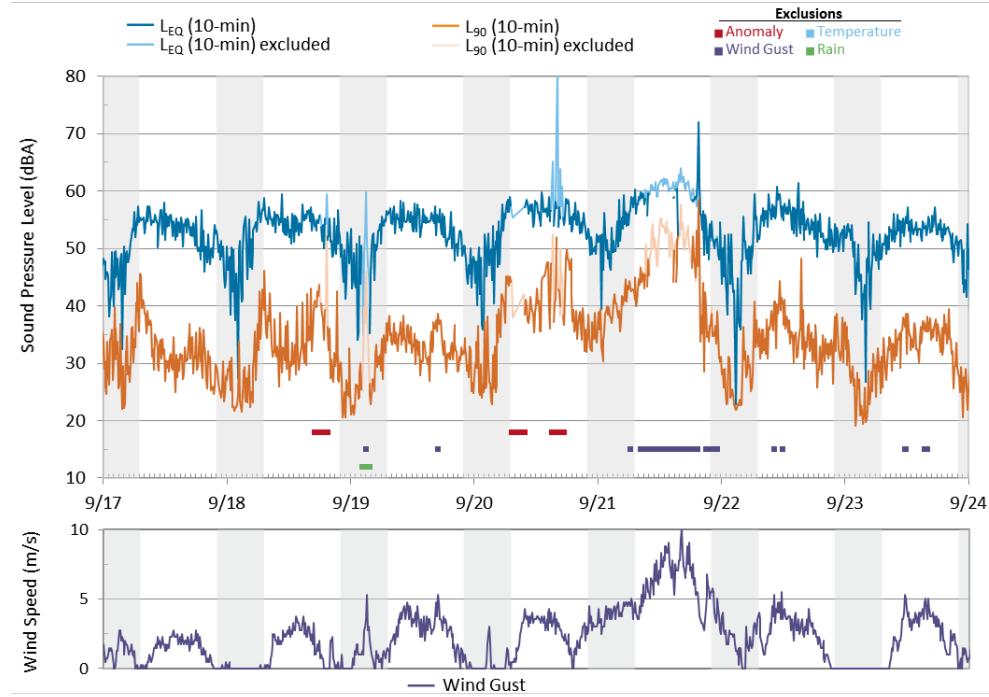


## Monitor 6

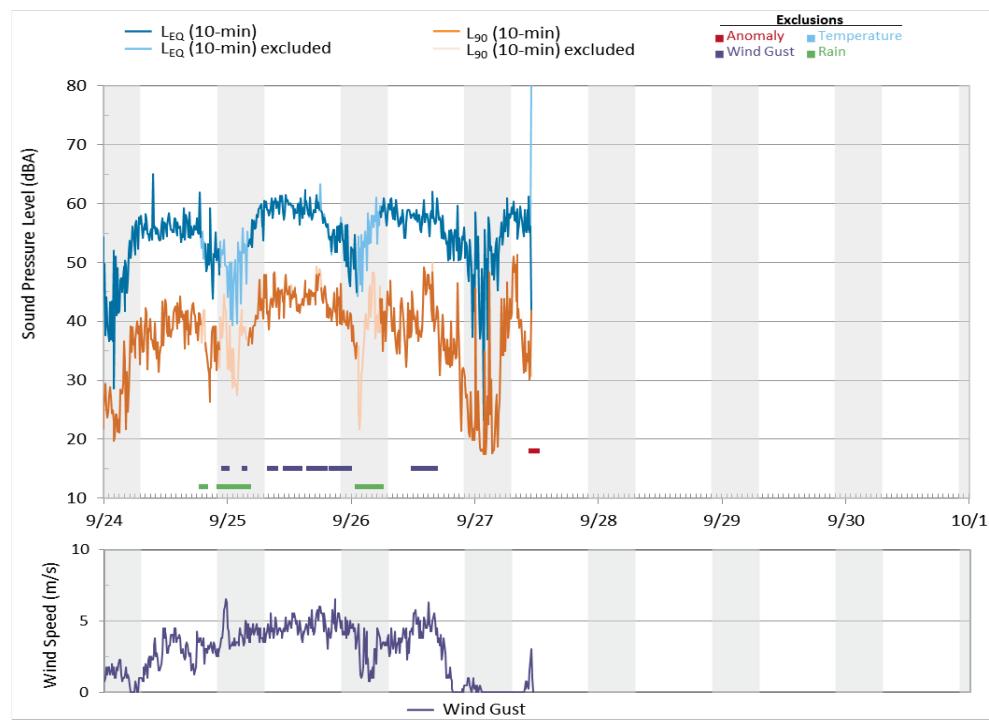
Background sound level monitoring results for Monitor 6 are shown in Figure 36 through Figure 38. Monitor 6 was one of the less windy sites. Background sound levels were driven by geophonic sounds, the agricultural nature of the site, and passing traffic on OH-4. There was also occasional sound from train passbys on the nearby rail line. The strong diurnal pattern in sound levels at this site are indicative of daytime anthropogenic sound such as agricultural functions and traffic on OH-4. The large difference between the  $L_{eq}$ , and  $L_{90}$ , particularly during the day, indicates that much of the sound is due to short duration events, such as vehicle passbys. The daytime and nighttime  $L_{eq}$  were 56 and 52 dBA, respectively.



**FIGURE 36: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 13 TO SEPT. 17**



**FIGURE 37: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 17 TO SEPT. 24**

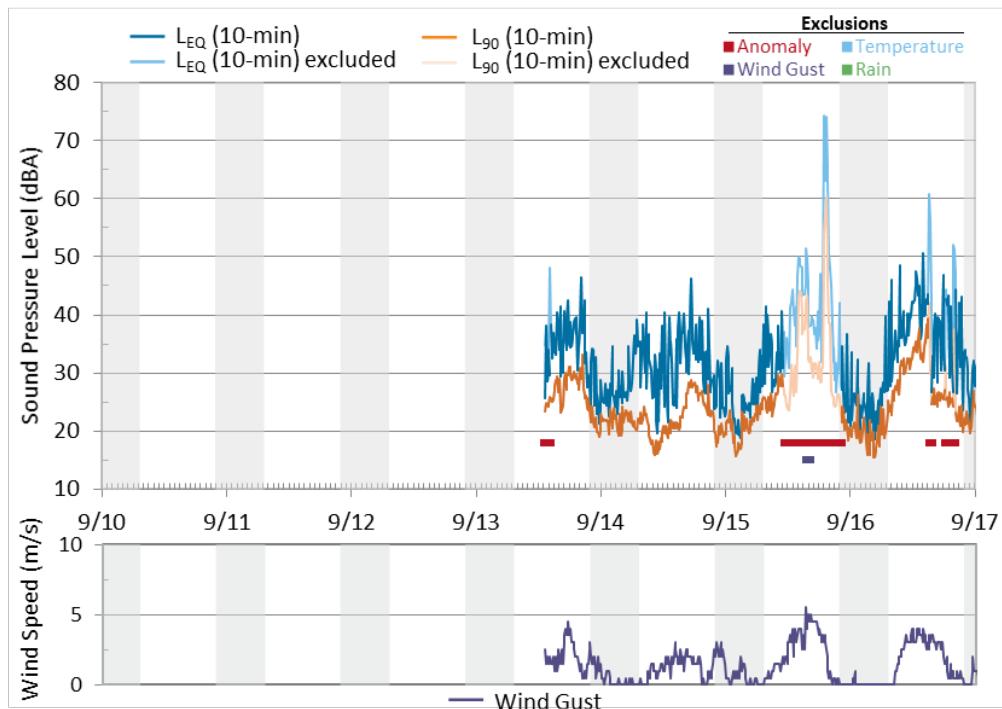


**FIGURE 38: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 24 TO SEPT. 27**

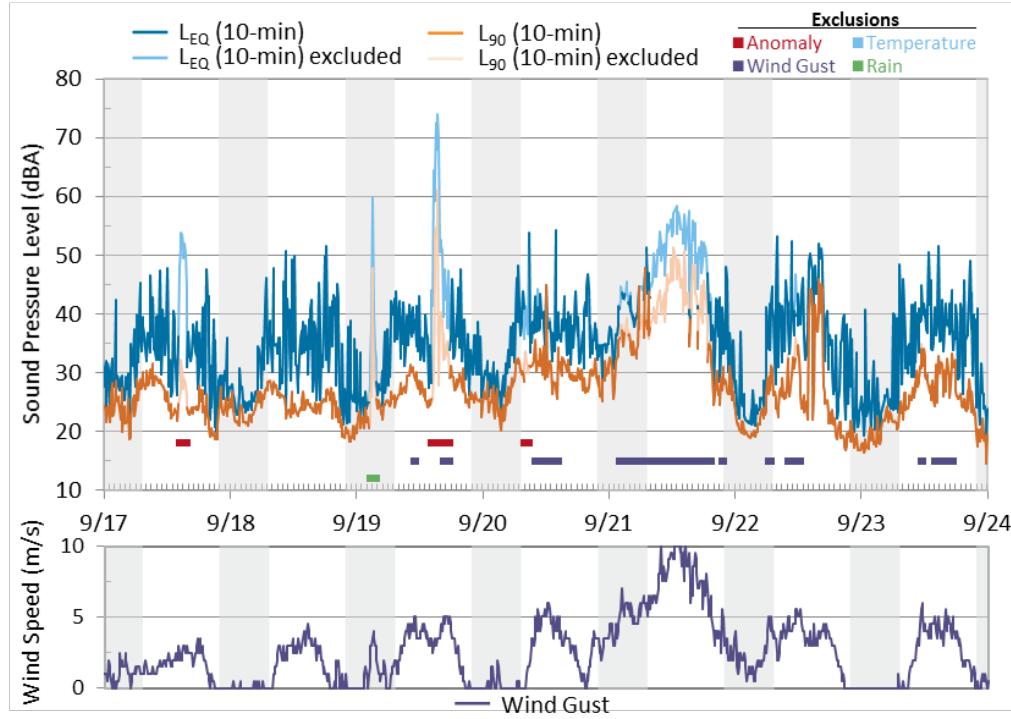


## Monitor 7

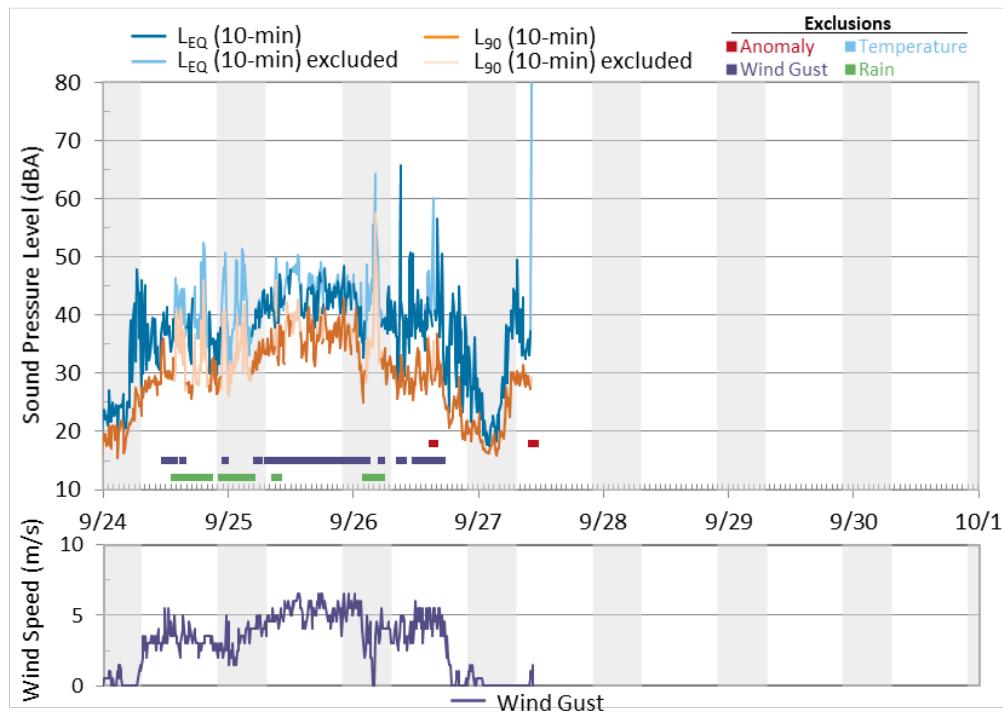
Background sound level monitoring results for Monitor 7 are shown in Figure 39 through Figure 41. It was periodically windy at this site, but less so than some other sites. This was one of the most rural and quietest sites monitored. Background sound levels were driven by geophonic sounds, occasional agricultural sounds, and infrequent traffic on Sherman-Norwich Road. The daytime and nighttime  $L_{eq}$  were 42 and 35 dBA, respectively.



**FIGURE 39: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 13 TO SEPT. 17**



**FIGURE 40: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 17 TO SEPT. 24**

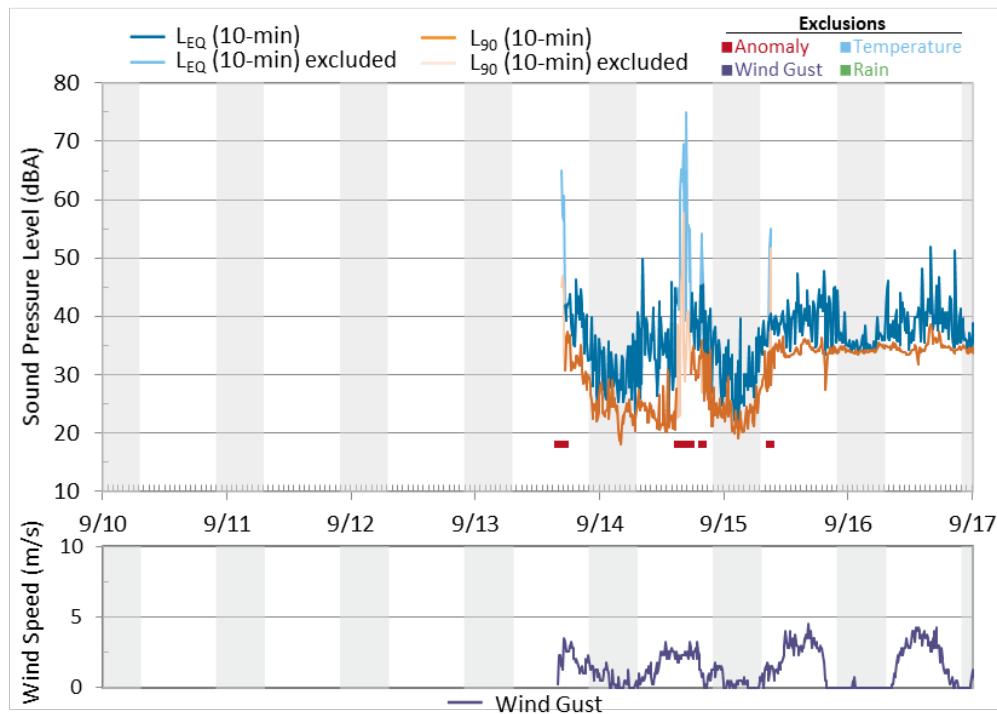


**FIGURE 41: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 24 TO SEPT. 27**

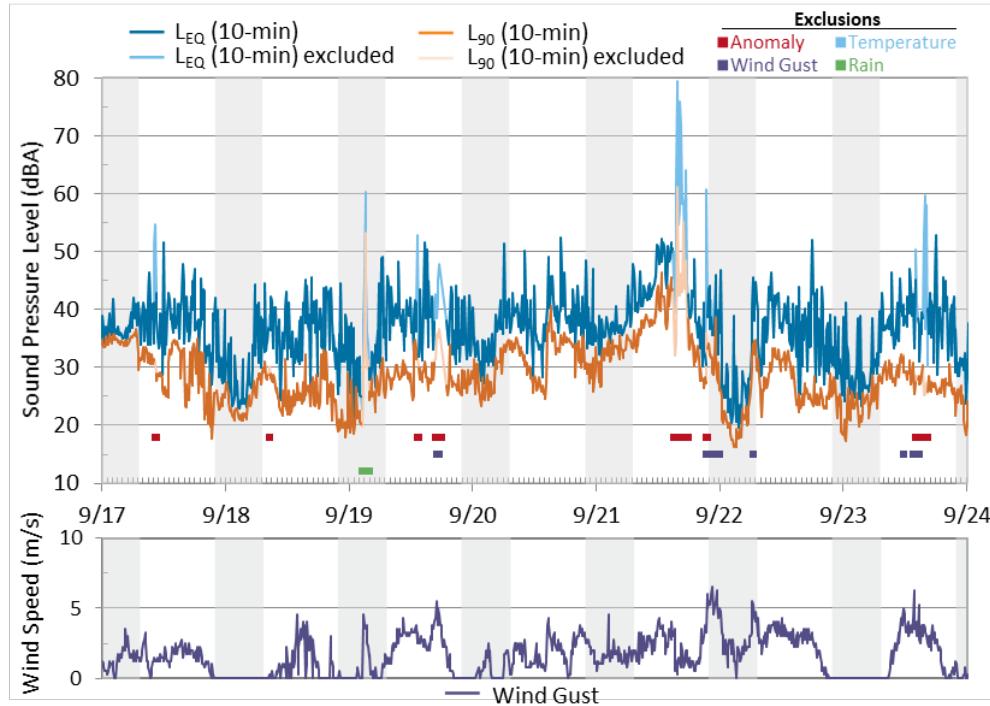


## Monitor 8

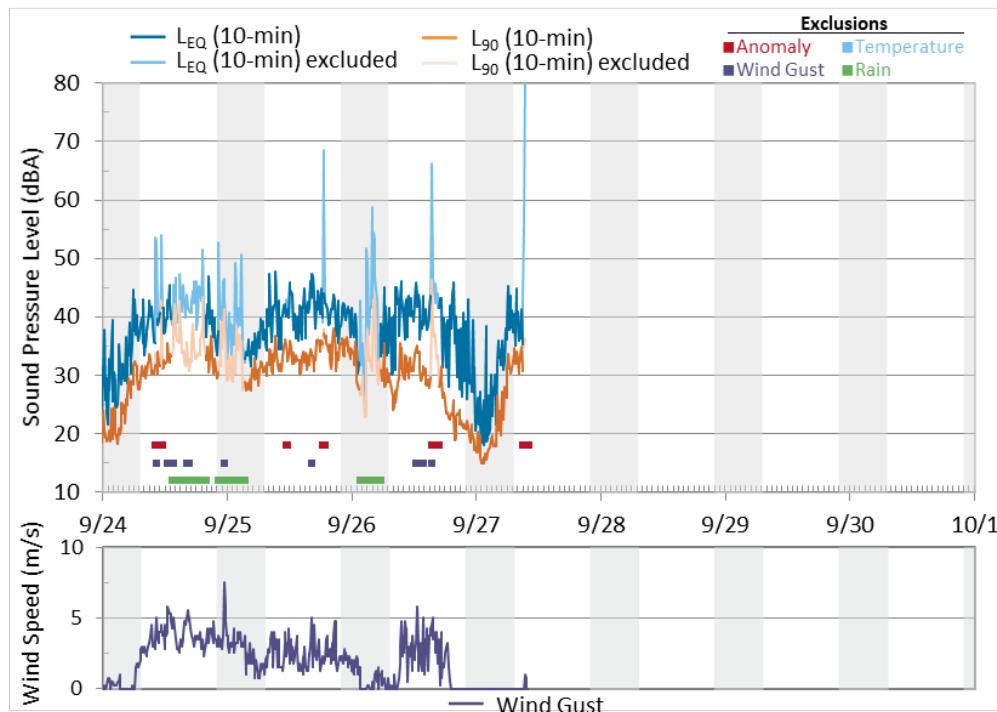
Background sound level monitoring results for Monitor 8 are shown in Figure 42 through Figure 44. Monitor 8 was the least windy site and was one of the most rural and quiet sites monitored. This site was very similar in soundscape character to Monitor 7. Background sound levels were driven by geophonic sounds, occasional agricultural sounds, and infrequent local traffic. The daytime and nighttime  $L_{eq}$  were 41 and 36 dBA, respectively.



**FIGURE 42: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 13 TO SEPT. 17**



**FIGURE 43: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 17 TO SEPT. 24**

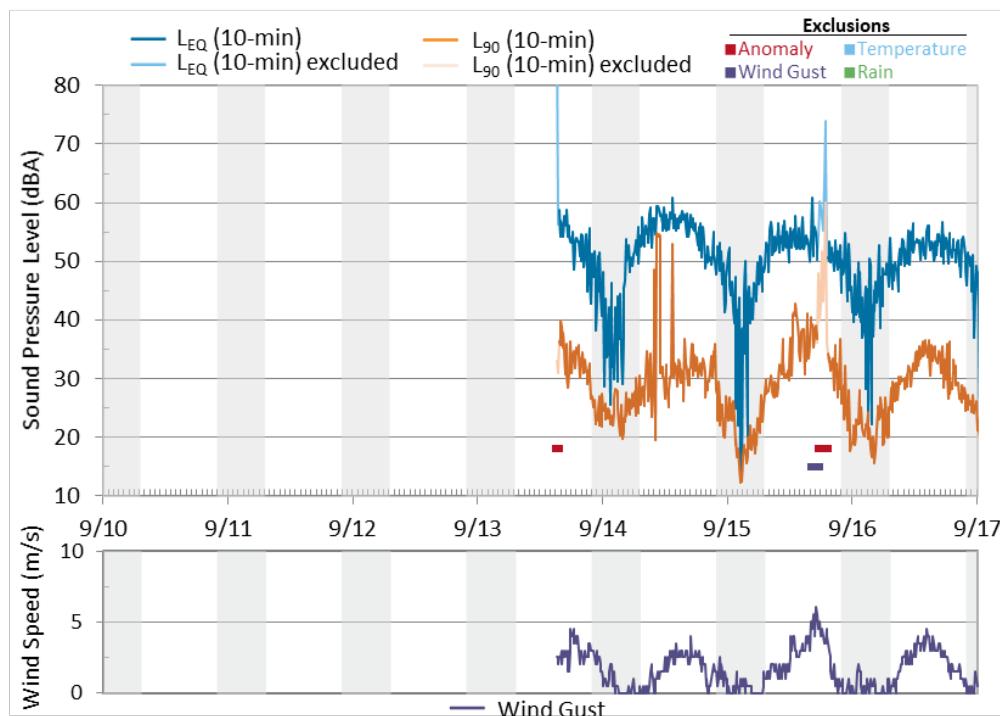


**FIGURE 44: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 24 TO SEPT. 27**

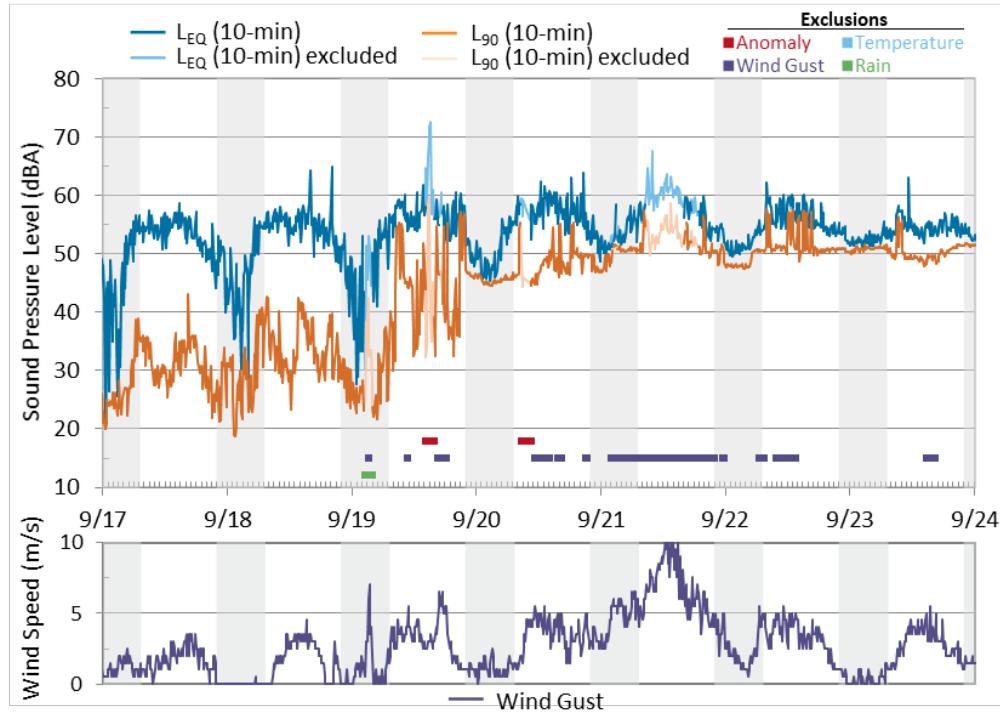
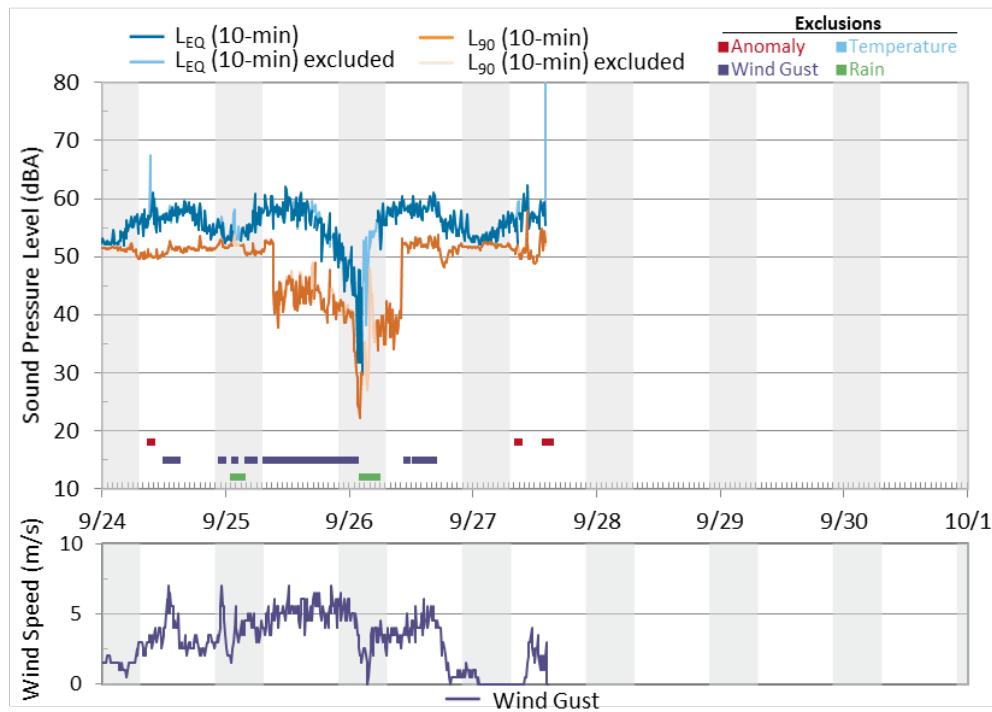


## Monitor 9

Background sound level monitoring results for Monitor 9 are shown in Figure 45 through Figure 47. It was periodically windy at this site, but less so than some other sites. This site had notable agricultural activity which was the driver of background sound levels, particularly during the second week of monitoring, where there was a persistent mechanical sound during the day and night associated with the agricultural operation. This accounted for sound levels rarely dipping below 50 dBA during the second week. Additional sources included frequent passing traffic on US-224 and occasional train passbys on the distant rail line. The daytime and nighttime  $L_{eq}$  were 56 and 52 dBA, respectively.



**FIGURE 45: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 13 TO SEPT. 17**

**FIGURE 46: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 17 TO SEPT. 24****FIGURE 47: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 24 TO SEPT. 27**

## 6.0 SOUND PROPAGATION MODELING PROCEDURES

### 6.1 MODELING PROCEDURES

Modeling for this project was in accordance with the standard ISO 9613-2, "Acoustics – Attenuation of sound during propagation outdoors, Part 2: General Method of Calculation." The ISO standard states,

This part of ISO 9613 specifies an engineering method for calculating the attenuation of sound during propagation outdoors in order to predict the levels of environmental noise at a distance from a variety of sources. The method predicts the equivalent continuous A-weighted sound pressure level ... under meteorological conditions favorable to propagation from sources of known sound emissions. These conditions are for downwind propagation ... or, equivalently, propagation under a well-developed moderate ground-based temperature inversion, such as commonly occurs at night.

The model takes into account source sound power levels, surface reflection and absorption, atmospheric absorption, geometric divergence, meteorological conditions, walls, barriers, berms, and terrain. The acoustical modeling software used here was CadnaA, from Datakustik GmbH. CadnaA is a widely accepted acoustical propagation modeling tool, used by many noise control professionals in the United States and internationally.

ISO 9613-2 also assumes downwind sound propagation between every source and every receptor, consequently, all wind directions, including the prevailing wind directions, are taken into account.

Model input parameters are listed in Appendix. For this analysis we utilized a ground absorption factor of G=0.5. A 2 dB factor was added to the turbine sound power level per typical manufacturer warranty confidence interval specifications.

Over 3,200 discrete receivers placed at sensitive receptors<sup>3</sup> within 1 mile of the project were modeled at a height of 4 meters (13 feet) above ground level. In addition, a grid of receivers spaced 50 meters by 50 meters was setup at a height of 4 meters (13 feet) above ground, covering approximately 1,295 sq. km. (500 sq. mi.) around the project area.

While only up to 71 turbines are planned to be constructed, all 87 turbine locations under consideration were included in the model. A total of six model runs are included in this report:

1. 87 Emerson Creek turbines only - Vestas V150, 4.2 MW with a hub height of 105 meters

<sup>3</sup> Of the 3,236 sensitive receptors modeled, most of them are residences. There are however 6 churches, 197 businesses, and 1 school within the 1 mile buffer that were included in the model.

2. 87 Emerson Creek turbines only – Vestas V150, 5.6 MW with a hub height of 105 meters
3. 87 Emerson Creek turbines only - Nordex N149, 4.5 MW with a hub height of 109 meters
4. 87 Emerson Creek turbines only - Nordex N149, 4.5 MW with a hub height of 125 meters
5. 87 Emerson Creek turbines only - Siemens Gamesa SG 4.5-145, 4.5 MW with a hub height of 107.5 meters
6. Cumulative Effect: 27 Republic Wind turbines (SG 4.5-145) within 3 miles of Emerson Creek, 31 Seneca Wind turbines (mixture of GE 2.5-127 and 2.3-116 turbines per the Seneca Wind permit application) within 3 miles of Emerson Creek, and 87 Emerson Creek turbines using Siemens Gamesa SG 4.5-145, 4.5 MW with a hub height of 107.5 meters

Each model run also included the sound emissions from two transformers at the project substation. The transformers have a NEMA TR-1 sound pressure level of 82 dBA with no cooling (ONAN), 84 dBA with stage 1 cooling, and 86 dBA with stage 2 cooling (ONAF), but it is our understanding that Apex intends to specify from the transformer manufacturer that the transformers meet a sound specification of at least a 5 dB less than the NEMA TR-1 sound level. As such, the transformers were modeled as a sound pressure level of 81 dBA with stage 2 cooling.

## 6.2 MODEL RESULTS

A summary of the sound propagation model results for each turbine model is provided in Table 4, and Appendix D provides a list of the calculated overall sound pressure levels at each discrete receiver for all six model runs and maps showing all receiver identification numbers for reference to the chart.

As shown in Table 4, all non-participating sensitive receptors are projected at 49 dBA or less from all five model runs that include only the Emerson Creek turbines. That is less than the 49 dBA OPSB limit that is applicable to this project.

The highest participating sensitive receptor is 54 dBA which is a participating receptor located adjacent to the project substation. The modeled sound level at that receptor is due to the two project transformers during stage two cooling (ONAF) which would involve cooling fans operating. The cooling fans typically operate periodically during the day when the ambient temperature is high (e.g. hot summer day). At night the transformers would typically operate with natural convection cooling (ONAN) which does not involve cooling fans. Under ONAN



conditions the sound level at the closest participating receptor to the substation would be 49 dBA.

**TABLE 4: SUMMARY OF MODELED SOUND PRESSURE LEVELS (dBA) FOR EACH MODEL RUN<sup>4</sup>**

| Receptor Classification | V150 4.2 MW |     |     | V150 5.6 MW |     |     | N149 4.5 MW at 109m or 125m Hub Height |     |     | SG 4.5-145 |     |     | Cummulative (Emerson, Republic, Seneca) |     |     |
|-------------------------|-------------|-----|-----|-------------|-----|-----|--|-----|-----|------------|-----|-----|---|-----|-----|
|                         | Mean        | Max | Min | Mean        | Max | Min | Mean                                   | Max | Min | Mean       | Max | Min | Mean                                    | Max | Min |
| All                     | 35          | 54  | 24  | 35          | 54  | 23  | 36                                     | 54  | 24  | 37         | 54  | 26  | 38                                      | 54  | 28  |
| Participating           | 40          | 54  | 28  | 39          | 54  | 27  | 40                                     | 54  | 28  | 42         | 54  | 30  | 42                                      | 54  | 31  |
| Non-Participating       | 35          | 46  | 24  | 34          | 45  | 23  | 35                                     | 47  | 24  | 37         | 48  | 26  | 38                                      | 51  | 28  |

If Emerson Creek, Republic Wind, and Seneca Wind were all constructed the highest sound level due to wind turbines at a non-participating receptor within 1 mile of Emerson Creek is 51 dBA (see Table 4). In fact, there are three non-participating receptors (ID 2175, 2964, & 3022 in Appendix D) that would exceed 49 dBA under the cumulative scenario. The receptors are located on the border between Emerson Creek and Seneca Wind in the southwest corner of the Emerson Creek project area, between 1,450 meters (4,757 feet) and 1,550 meters (5,085 feet) west of T80. The cause of the sound levels in excess of 49 dBA at these four receivers is due primarily to Seneca Wind as the sound attributable to the Emerson Creek Project alone is 37 dBA at ID 2175 and ID 3022 and 36 dBA at ID 2964. It is important to note that Noise Reduced Operations (NRO) was proposed by Seneca Wind<sup>5</sup> for some turbines, but it is not apparent from their sound report which turbines would implement that technology. If it is planned to be incorporated into the operation of the turbines closest to ID 2175, 2964, and 3022 then the projected sound levels at those receptors from the cumulative model run would likely be less than what is reported in this document.

Table 4 shows that, of the current wind turbines under consideration for Emerson Creek, the SG 4.5-145 produces the highest sound level at the modeled receptors. As such, model results for the SG 4.5-145 are shown in Figure 48 in a contour line map format. Results are presented as contour lines representing 5-dB increments of calculated A-weighted sound pressure level from 25 to 55 dBA. In addition, a red dashed contour line is shown that represents 49 dBA, the applicable OPSB limit for Emerson Creek. At the full scale shown in Figure 48, it is difficult to visually discern, but there are no non-participating receptors within the 49 dBA sound level limit contour.

<sup>4</sup> Both model runs of the N149 4.5 MW are shown in the same columns since the summary results are the same for both model runs.

<sup>5</sup> "Seneca Wind Acoustic Assessment", Tetratech, July 2018, pg. 12.

The results of the cumulative effect model run which takes into account turbines from the proposed Republic Wind and Seneca Wind projects is provided in Figure 49.



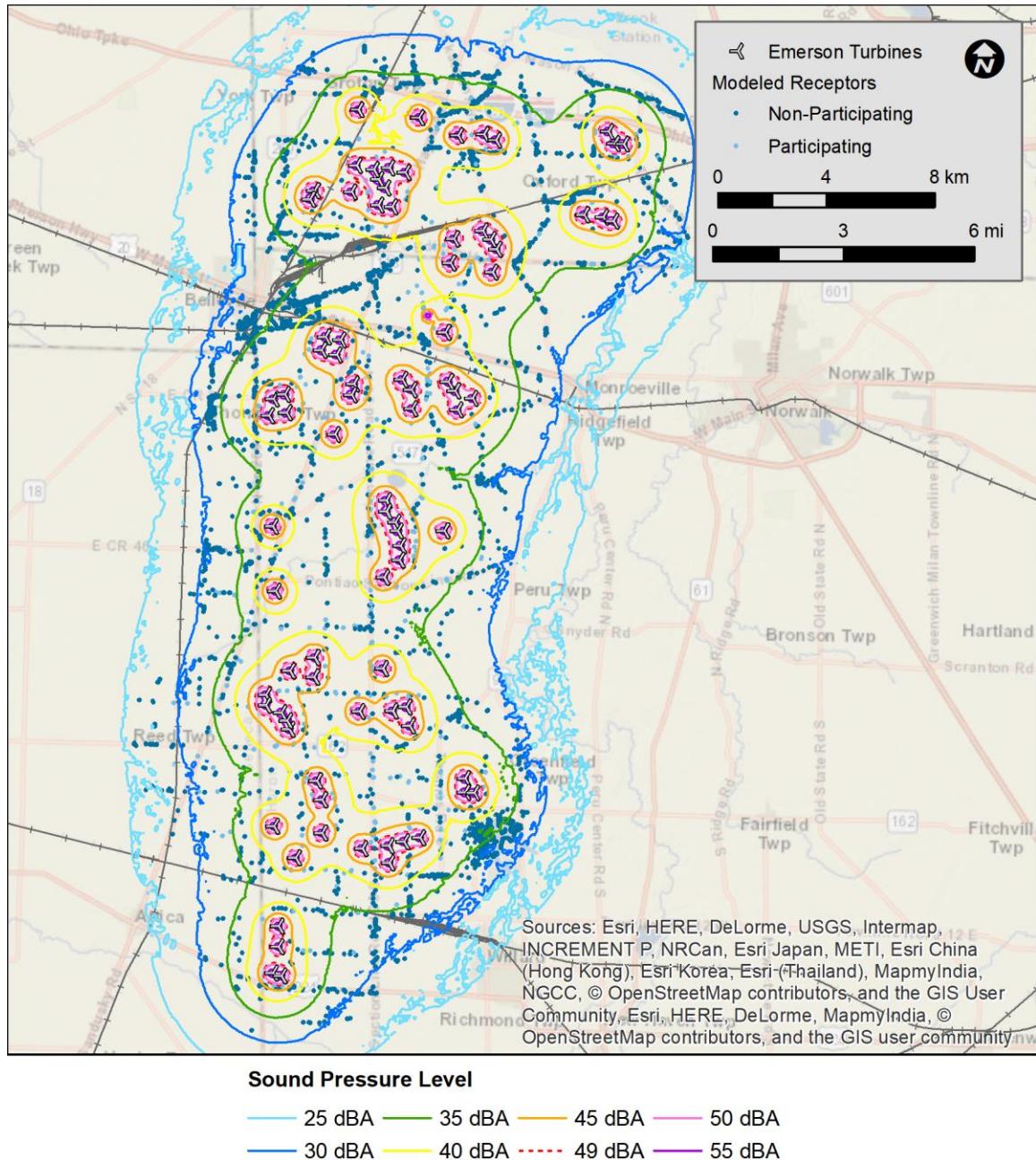
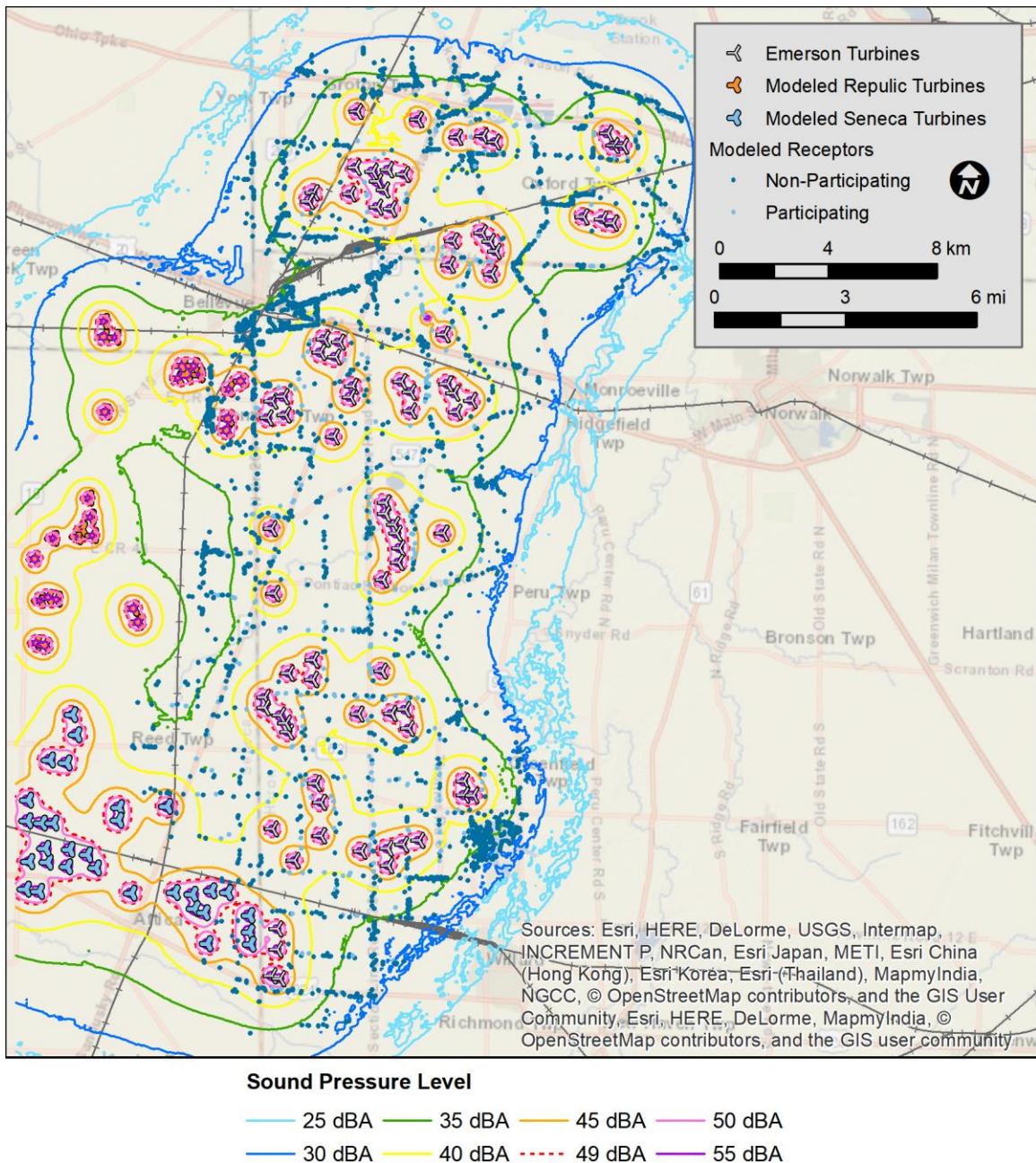


FIGURE 48: SOUND PROPAGATION MODEL RESULTS – SG 4.5-145, EMERSON TURBINES ONLY



**FIGURE 49: SOUND PROPAGATION MODEL RESULTS – CUMMULATIVE MODEL RUN, EMERSON CREEK (SG 4.5-145), REPUBLIC WIND, AND SENECA WIND**



## 7.0 CONSTRUCTION NOISE

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Construction for the project will be primarily at the wind turbine sites. While there may be activity closer to residences for road construction and utility work, such work will be of a relatively short duration.

Equipment used for construction will vary. Some of the louder pieces of equipment are shown in Table 5 along with the approximate maximum sound pressure levels at 15 meters (50 feet) and 447 meters (1,468 feet), the closest distance between a turbine site and a non-participating receptor.

**TABLE 5: MAXIMUM SOUND LEVELS FROM VARIOUS TYPES OF CONSTRUCTION EQUIPMENT ASSUMING NO ATTENUATION FROM TREES OR TERRAIN**

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| Equipment                              | Maximum Sound Pressure Level at 447 meters (1,468 feet)<br>(dBA) <sup>6</sup> | Maximum Sound Pressure Level at 15 meters (50 feet)<br>(dBA) |
|--|---|--|
| M-250 Liftcrane                        | 48  | 83   |
| 2250 S3 Liftcrane                      | 43  | 78   |
| Excavator                              | 50  | 83   |
| Dump truck being loaded                | 54  | 86   |
| Dump truck at 25 mph accelerating      | 44  | 76   |
| Tractor trailer at 25 mph accelerating | 49  | 80   |
| Concrete truck                         | 46  | 81   |
| Bulldozer                              | 50  | 85   |
| Rock drill                             | 62  | 100  |
| Loader                                 | 42  | 80   |
| Backhoe                                | 45  | 80   |
| Wood chipper                           | 64  | 96   |

Major construction work, such as clearing for the access roads and any drilling or blasting, will occur during the day. Per OPSB requirements, any construction activities that increase sound above ambient levels at sensitive receptors will be limited to the hours of 7 AM to 7 PM or dusk, whichever is later. Pile driving, blasting, and rock hammering will occur between the hours of 10 AM to 5 PM.

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<sup>6</sup> Assumes hard ground around construction site, and ISO 9613-2 propagation with no vegetation reduction. Actual sound levels will likely be lower given the prevalence of vegetation and soft ground around the site.

## 8.0 SUMMARY & CONCLUSIONS

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Emerson Creek is a proposed wind power project that would be located in Erie, Huron and Seneca Counties. The facility is permitting up to 87 wind turbine locations but is planning to construct up to 71 wind turbines for a project rating of up to 297.66 MW. In preparation for OPSB permitting, RSG conducted a sound level assessment of the project that included background sound level monitoring of the existing environment in and around the project area and sound propagation modeling to predict project-only sound levels at nearby residences.

Summary and conclusions are as follows:

1. Emerson Creek is currently considering four turbine models: the Vestas V150 4.2 MW with a hub height of 105 meters, the Vestas V150 5.6 MW with a hub height of 105 meters, the Siemens Gamesa SG 4.5-145 4.5 MW with a hub height of 107.5 meters, and the Nordex N149 4.5 MW with a hub height of 109 meters and 125 meters.
2. Sound sources in the existing soundscape include agricultural activities, vehicle passbys and distant traffic, train passbys (near and far), airplane overflights, and biogenic and geophonic sounds.
  - a. Background sound levels vary some around the project site. As reported in Section 5.0, sound levels were highest at Monitor 1, Monitor 6, and Monitor 9 with nighttime sound levels ( $L_{eq}$ ) between 50 and 52 dBA due to distant traffic and agricultural activities. In contrast, Monitors 7 and 8 were the quietest with nighttime sound levels ( $L_{eq}$ ) between 35 and 36 dBA.
  - b. The average nighttime  $L_{eq}$  across the project area was 44 dBA.
3. The applicable sound level standard comes from Section 4906-4-09(F) of the OAC and sets a limit of “the project area ambient nighttime  $L_{eq}$  plus five dBA.” In this case, the measured nighttime  $L_{eq}$  was 44 dBA setting a sound level limit of 49 dBA for Emerson Creek.
4. Sound propagation modeling was performed in accordance with ISO 9613-2 at over 3,200 discrete receivers that represent sensitive receptors within 1 mile of the project. Modeling was performed assuming spectral ground attenuation, a ground factor of G=0.5 and an additional 2 dB per typical manufacturer warranty confidence interval specifications.
5. Modeling was completed for six scenarios:
  - a. 87 Emerson Creek turbines only - Vestas V150, 4.2 MW with a hub height of 105 meters



- b. 87 Emerson Creek turbines only – Vestas V150, 5.6 MW with a hub height of 105 meters
  - c. 87 Emerson Creek turbines only - Nordex N149, 4.5 MW with a hub height of 109 meters
  - d. 87 Emerson Creek turbines only - Nordex N149, 4.5 MW with a hub height of 125 meters
  - e. 87 Emerson Creek turbines only - Siemens Gamesa SG 4.5-145, 4.5 MW with a hub height of 107.5 meters
  - f. Cumulative Effect: 27 Republic Wind turbines (SG 4.5-145) within 3 miles of Emerson Creek, 31 Seneca Wind turbines (mixture of GE 2.5-127 and 2.3-116 turbines per the Seneca Wind permit application) within 3 miles of Emerson Creek, and 87 Emerson Creek turbines using Siemens Gamesa SG 4.5-145, 4.5 MW with a hub height of 107.5 meters
6. Model results are summarized in Section 6.2, and provided in tabular format for all model runs in Appendix D. For all five Emerson Creek only model run, all non-participating receptors were less than 49 dBA, meeting the applicable OPSB limit for the project.
7. For the Cumulative Effect model run, there were three non-participating receptors in excess of 49 dBA (up to 51 dBA) along the border between Seneca Wind and Emerson Creek Wind. This is due primarily to the projected sound levels from Seneca Wind which may be providing Noise Reduced Operation (NRO) for some of their turbines, but the turbines Seneca plans to implement NRO on did not appear to be specified in the noise report for the project.
- a. If needed, the contribution from Emerson Creek at the three affected receivers could be marginally reduced by implementing NRO on Emerson Creek's T80.
8. Construction activities that increase sound above ambient levels at sensitive receptors will be limited to the hours of 7 AM to 7 PM or dusk, whichever is later. Sound levels due to construction and summarized in Section 7.

## APPENDIX A. ACOUSTICS PRIMER

### Expressing Sound in Decibel Levels

The varying air pressure that constitutes sound can be characterized in many different ways. The human ear is the basis for the metrics that are used in acoustics. Normal human hearing is sensitive to sound fluctuations over an enormous range of pressures, from about 20 micropascals (the “threshold of audibility”) to about 20 pascals (the “threshold of pain”).<sup>7</sup> This factor of one million in sound pressure difference is challenging to convey in engineering units. Instead, sound pressure is converted to sound “levels” in units of “decibels” (dB, named after Alexander Graham Bell). Once a measured sound is converted to dB, it is denoted as a level with the letter “L”.

The conversion from sound pressure in pascals to sound level in dB is a four-step process. First, the sound wave’s measured amplitude is squared and the mean is taken. Second, a ratio is taken between the mean square sound pressure and the square of the threshold of audibility (20 micropascals). Third, using the logarithm function, the ratio is converted to factors of 10. The final result is multiplied by 10 to give the decibel level. By this decibel scale, sound levels range from 0 dB at the threshold of audibility to 120 dB at the threshold of pain.

Typical sound sources, and their sound pressure levels, are listed on the scale in Figure 50.

### Human Response to Sound Levels: Apparent Loudness

For every 20 dB increase in sound level, the sound pressure increases by a *factor* of 10; the sound *level* range from 0 dB to 120 dB covers 6 factors of 10, or one million, in sound *pressure*. However, for an increase of 10 dB in sound *level* as measured by a meter, humans perceive an approximate doubling of apparent loudness: to the human ear, a sound level of 70 dB sounds about “twice as loud” as a sound level of 60 dB. Smaller changes in sound level, less than 3 dB up or down, are generally not perceptible.

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<sup>7</sup> The pascal is a measure of pressure in the metric system. In Imperial units, they are themselves very small: one pascal is only 145 millionths of a pound per square inch (psi). The sound pressure at the threshold of audibility is only 3 one-billionths of one psi: at the threshold of pain, it is about 3 one-thousandths of one psi.





FIGURE 50: A SCALE OF SOUND PRESSURE LEVELS FOR TYPICAL SOUND SOURCES

## Frequency Spectrum of Sound

The “frequency” of a sound is the rate at which it fluctuates in time, expressed in Hertz (Hz), or cycles per second. Very few sounds occur at only one frequency: most sound contains energy at many different frequencies, and it can be broken down into different frequency divisions, or bands. These bands are similar to musical pitches, from low tones to high tones. The most common division is the standard octave band. An octave is the range of frequencies whose upper frequency limit is twice its lower frequency limit, exactly like an octave in music. An octave band is identified by its center frequency: each successive band’s center frequency is twice as high (one octave) as the previous band. For example, the 500 Hz octave band includes all sound whose frequencies range between 354 Hz (Hertz, or cycles per second) and 707 Hz. The next band is centered at 1,000 Hz with a range between 707 Hz and 1,414 Hz. The range of human hearing is divided into 10 standard octave bands: 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1,000 Hz, 2,000 Hz, 4,000 Hz, 8,000 Hz, and 16,000 Hz. For analyses that require finer frequency detail, each octave-band can be subdivided. A commonly-used subdivision creates three smaller bands within each octave band, or so-called 1/3-octave bands.

## Human Response to Frequency: Weighting of Sound Levels

The human ear is not equally sensitive to sounds of all frequencies. Sounds at some frequencies seem louder than others, despite having the same decibel level as measured by a sound level meter. In particular, human hearing is much more sensitive to medium pitches (from about 500 Hz to about 4,000 Hz) than to very low or very high pitches. For example, a tone measuring 80 dB at 500 Hz (a medium pitch) sounds quite a bit louder than a tone measuring 80 dB at 60 Hz (a very low pitch). The frequency response of normal human hearing ranges from 20 Hz to 20,000 Hz. Below 20 Hz, sound pressure fluctuations are not “heard”, but sometimes can be “felt”. This is known as “infrasound”. Likewise, above 20,000 Hz, sound can no longer be heard by humans; this is known as “ultrasound”. As humans age, they tend to lose the ability to hear higher frequencies first; many adults do not hear very well above about 16,000 Hz. Most natural and man-made sound occurs in the range from about 40 Hz to about 4,000 Hz. Some insects and birdsongs reach to about 8,000 Hz.

To adjust measured sound pressure levels so that they mimic human hearing response, sound level meters apply filters, known as “frequency weightings”, to the signals. There are several defined weighting scales, including “A”, “B”, “C”, “D”, “G”, and “Z”. The most common weighting scale used in environmental noise analysis and regulation is A-weighting. This weighting represents the sensitivity of the human ear to sounds of low to moderate level. It attenuates sounds with frequencies below 1000 Hz and above 4000 Hz; it amplifies very slightly sounds between 1000 Hz and 4000 Hz, where the human ear is particularly sensitive. The C-weighting scale is sometimes used to describe louder sounds. The B- and D- scales are seldom used. All of these frequency weighting scales are normalized to the average human hearing response at



1000 Hz: at this frequency, the filters neither attenuate nor amplify. When a reported sound level has been filtered using a frequency weighting, the letter is appended to “dB”. For example, sound with A-weighting is usually denoted “dBA”. When no filtering is applied, the level is denoted “dB” or “dBZ”. The letter is also appended as a subscript to the level indicator “L”, for example “ $L_A$ ” for A-weighted levels.

## Time Response of Sound Level Meters

Because sound levels can vary greatly from one moment to the next, the time over which sound is measured can influence the value of the levels reported. Often, sound is measured in real time, as it fluctuates. In this case, acousticians apply a so-called “time response” to the sound level meter, and this time response is often part of regulations for measuring sound. If the sound level is varying slowly, over a few seconds, “Slow” time response is applied, with a time constant of one second. If the sound level is varying quickly (for example, if brief events are mixed into the overall sound), “Fast” time response can be applied, with a time constant of one-eighth of a second.<sup>8</sup> The time response setting for a sound level measurement is indicated with the subscript “S” for Slow and “F” for Fast:  $L_S$  or  $L_F$ . A sound level meter set to Fast time response will indicate higher sound levels than one set to Slow time response when brief events are mixed into the overall sound, because it can respond more quickly.

In some cases, the maximum sound level that can be generated by a source is of concern. Likewise, the minimum sound level occurring during a monitoring period may be required. To measure these, the sound level meter can be set to capture and hold the highest and lowest levels measured during a given monitoring period. This is represented by the subscript “max”, denoted as “ $L_{\text{max}}$ ”. One can define a “max” level with Fast response  $L_{F\text{max}}$  (1/8-second time constant), Slow time response  $L_{S\text{max}}$  (1-second time constant), or Continuous Equivalent level over a specified time period  $L_{EQ\text{max}}$ .

## Accounting for Changes in Sound Over Time

A sound level meter’s time response settings are useful for continuous monitoring. However, they are less useful in summarizing sound levels over longer periods. To do so, acousticians apply simple statistics to the measured sound levels, resulting in a set of defined types of sound level related to averages over time. An example is shown in Figure 51. The sound level at each instant of time is the grey trace going from left to right. Over the total time it was measured (1 hour in the figure), the sound energy spends certain fractions of time near various levels, ranging from the minimum (about 27 dB in the figure) to the maximum (about 65 dB in the figure). The simplest descriptor is the average sound level, known as the Equivalent Continuous

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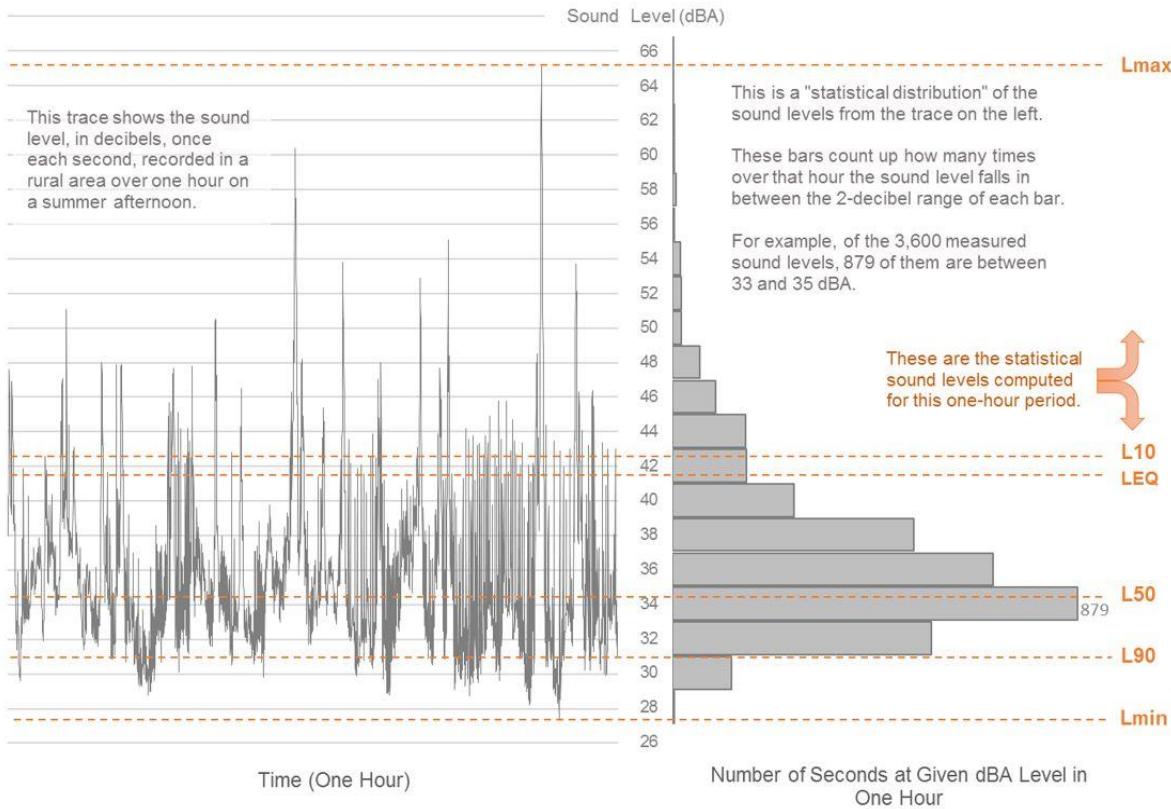
<sup>8</sup> There is a third-time response defined by standards, the “Impulse” response. This response was defined to enable use of older, analog meters when measuring very brief sounds; it is no longer in common use.

Sound Level. Statistical levels are used to determine for what percentage of time the sound is louder than any given level. These levels are described in the following sections.

## **Equivalent Continuous Sound Level - L<sub>EQ</sub>**

One straightforward, common way of describing sound levels is in terms of the Continuous Equivalent Sound Level, or L<sub>EQ</sub>. The L<sub>EQ</sub> is the average sound pressure level over a defined period of time, such as one hour or one day. L<sub>EQ</sub> is the most commonly used descriptor in noise standards and regulations. L<sub>EQ</sub> is representative of the overall sound to which a person is exposed. Because of the logarithmic calculation of decibels, L<sub>EQ</sub> tends to favor higher sound levels: loud and infrequent sources have a larger impact on the resulting average sound level than quieter but more frequent sounds. For example, in Figure 51, even though the sound levels spends most of the time near about 34 dBA, the L<sub>EQ</sub> is 41 dBA, having been “inflated” by the maximum level of 65 dBA and other occasional spikes over the course of the hour.





**FIGURE 51: EXAMPLE OF DESCRIPTIVE TERMS OF SOUND MEASUREMENT OVER TIME**

### Percentile Sound Levels – $L_N$

Percentile sound levels describe the statistical distribution of sound levels over time. " $L_N$ " is the level above which the sound spends "N" percent of the time. For example,  $L_{90}$  (sometimes called the "residual base level") is the sound level exceeded 90% of the time: the sound is louder than  $L_{90}$  most of the time.  $L_{10}$  is the sound level that is exceeded only 10% of the time.  $L_{50}$  (the "median level") is exceeded 50% of the time: half of the time the sound is louder than  $L_{50}$ , and half the time it is quieter than  $L_{50}$ . Note that  $L_{50}$  (median) and  $L_{EQ}$  (mean) are not always the same, for reasons described in the previous section.

$L_{90}$  is often a good representation of the "ambient sound" in an area. This is the sound that persists for longer periods, and below which the overall sound level seldom falls. It tends to filter out other short-term environmental sounds that aren't part of the source being investigated.  $L_{10}$  represents the higher, but less frequent, sound levels. These could include such events as barking dogs, vehicles driving by and aircraft flying overhead, gusts of wind, and work operations.  $L_{90}$  represents the background sound that is present when these event sounds are excluded.

Note that if one sound source is very constant and dominates the soundscape in an area, all of the descriptive sound levels mentioned here tend toward the same value. It is when the sound is varying widely from one moment to the next that the statistical descriptors are useful.



## APPENDIX B. WIND TURBINE ACOUSTICS

### Sources of Sound Generation by Wind Turbines

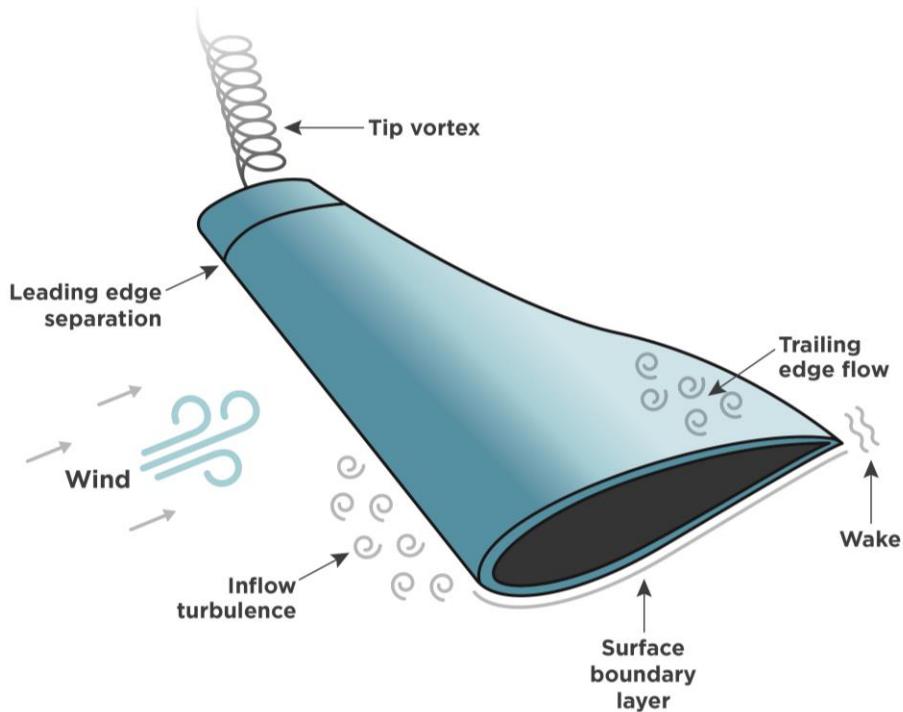
Wind turbines generate two principal types of noise: aerodynamic noise, produced from the flow of air around the blades, and mechanical noise, produced from mechanical and electrical components within the nacelle.

Aerodynamic noise is the primary source of noise associated with wind turbines. These acoustic emissions can be either tonal or broad band. Tonal noise occurs at discrete frequencies, whereas broadband noise is distributed with little peaking across the frequency spectrum.

While unusual, tonal noise can also originate from unstable air flows over holes, slits, or blunt trailing edges on blades. Most modern wind turbines have upwind rotors designed to prevent blade impulsive noise. Therefore, the majority of audible aerodynamic noise from wind turbines is broadband at the middle frequencies, roughly between 200 Hz and 1,000 Hz.

Wind turbines emit aerodynamic broadband noise as the spinning blades interact with atmospheric turbulence and as air flows along their surfaces. This produces a characteristic “whooshing” sound through several mechanisms (Figure 52):

- Inflow turbulence noise occurs when the rotor blades encounter atmospheric turbulence as they pass through the air. Uneven pressure on a rotor blade causes variations in the local angle of attack, which affects the lift and drag forces, causing aerodynamic loading fluctuations. This generates noise that varies across a wide range of frequencies but is most significant at frequencies below 500 Hz.
- Trailing edge noise is produced as boundary-layer turbulence as the air passes into the wake, or trailing edge, of the blade. This noise is distributed across a wide frequency range but is most notable at high frequencies between 700 Hz and 2 kHz.
- Tip vortex noise occurs when tip turbulence interacts with the surface of the blade tip. While this is audible near the turbine, it tends to be a small component of the overall noise further away.
- Stall or separation noise occurs due to the interaction of turbulence with the blade surface.



**FIGURE 52: AIRFLOW AROUND A ROTOR BLADE**

Mechanical sound from machinery inside the nacelle tends to be tonal in nature but can also have a broadband component. Potential sources of mechanical noise include the gearbox, generator, yaw drives, cooling fans, and auxiliary equipment. These components are housed within the nacelle, whose surfaces, if untreated, radiate the resulting noise. However modern wind turbines have nacelles that are designed to reduce internal noise, and rarely is the mechanical noise a significant portion of the total noise from a wind turbine.

## Amplitude Modulation

Amplitude modulation (AM) is a fluctuation in sound level that occurs at the blade passage frequency. No consistent definition exists for how much of a sound level fluctuation is necessary for blade swish to be considered AM, however sound level fluctuations in A-weighted sound level can range up to 10 dB. Fluctuations in individual 1/3 octave bands are typically more and can exceed 15 dB. Fluctuations in individual 1/3 octave bands can sometimes synchronize and desynchronize over periods, leading to increases and decreases in magnitude of the A-weighted fluctuations. Similarly, in wind farms with multiple turbines, fluctuations can



synchronize and desynchronize, leading to variations in AM depth.<sup>9</sup> Most amplitude modulation is in the mid frequencies and most overall A-weighted AM is less than 4.5 dB in depth.<sup>10</sup>

Many confirmed and hypothesized causes of AM exist, including: blade passage in front of the tower, blade tip sound emission directivity, wind shear, inflow turbulence, and turbine blade yaw error. It has recently been noted that although wind shear can contribute to the extent of AM, wind shear does not contribute to the existence of AM in and of itself. Instead, there needs to be detachment of airflow from the blades for wind shear to contribute to AM.<sup>11</sup> While factors like the blade passing in front of the tower are intrinsic to wind turbine design, other factors vary with turbine design, local meteorology, topography, and turbine layout. Mountainous areas, for example, are more likely to have turbulent airflow, less likely to have high wind shear, and less likely to have turbine layouts that allow for blade passage synchronization for multiple turbines. AM extent varies with the relative location of a receptor to the turbine. AM is usually experienced most when the receptor is between 45 and 60 degrees from the downwind or upwind position and is experienced least directly with the receptor directly upwind or downwind of the turbines.

## Meteorology

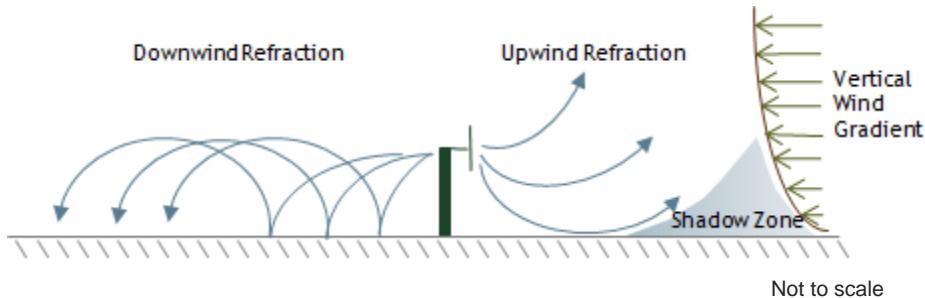
Meteorological conditions can significantly affect sound propagation. The two most important conditions to consider are wind shear and temperature lapse. Wind shear is the difference in wind speeds by elevation and temperature lapse rate is the temperature gradient by elevation. In conditions with high wind shear (large wind speed gradient), sound levels upwind from the source tend to decrease and sound levels downwind tend to increase due to the refraction, or bending, of the sound (Figure 53).

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<sup>9</sup> McCunney, Robert, et al. "Wind Turbines and Health: A Critical Review of the Scientific Literature." *Journal of Occupational and Environmental Medicine*. 56(11) November 2014: pp. e108-e130.

<sup>10</sup> RSG, et al., "Massachusetts Study on Wind Turbine Acoustics," Massachusetts Clean Energy Center and Massachusetts Department of Environmental Protection, 2016

<sup>11</sup> "Wind Turbine Amplitude Modulation: Research to Improve Understanding as to its Cause and Effect." *RenewableUK*. December 2013.



**FIGURE 53: SCHEMATIC OF THE REFRACTION OF SOUND DUE TO VERTICAL WIND GRADIENT (WIND SHEAR)**

With temperature lapse, when ground surface temperatures are higher than those aloft, sound will tend to refract upwards, leading to lower sound levels near the ground. The opposite is true when ground temperatures are lower than those aloft (an inversion condition).

High winds and high solar radiation can create turbulence which tends to break up and dissipate sound energy. Highly stable atmospheres, which tend to occur on clear nights with low ground-level wind speeds, tend to minimize atmospheric turbulence and are generally more favorable to downwind propagation.

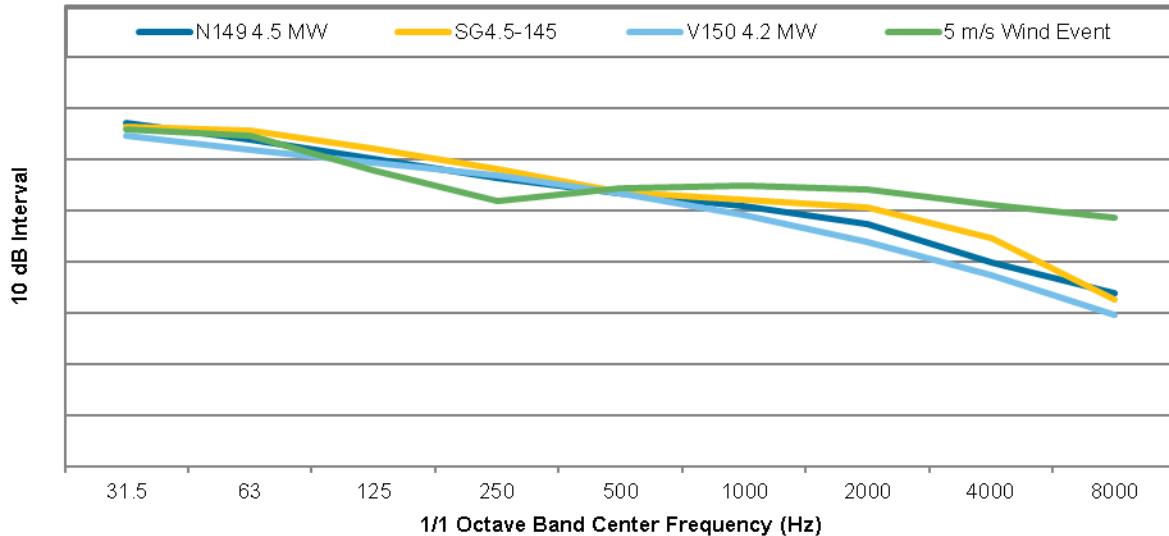
In general terms, sound propagates along the ground best under stable conditions with a strong temperature inversion. This tends to occur during the night and is characterized by low ground-level winds. As a result, worst-case conditions for wind turbines tend to occur downwind under moderate nighttime temperature inversions. Therefore, this is the default condition for modeling wind turbine sound.

## Masking

As mentioned above, sound levels from wind turbines are a function of wind speed. Background sound is also a function of wind speed, i.e., the stronger the winds, the louder the resulting background sound. This effect is amplified in areas covered by trees and other vegetation.

The sound from a wind turbine can often be masked by wind noise at downwind receptors because the frequency spectrum from wind is similar to the frequency spectrum from a wind turbine. Figure 54 compares the shape of the sound spectrum measured during a 5 m/s wind event to that of a Vestas V150 STE 4.2 MW wind turbine. As shown, the shapes of the spectra are similar at lower frequencies. At higher frequencies, the sounds from the masking wind noise are higher than the wind turbine. As a result, the masking of turbine noise occurs at higher wind speeds for some meteorological conditions. Masking will occur most, when ground wind speeds are relatively high, creating wind-caused noise such as wind blowing through the trees and interaction of wind with structures.





**FIGURE 54: COMPARISON OF NORMALIZED FREQUENCY SPECTRA MEASURED FROM A 5 M/S WIND EVENT AND THE SOUND POWER SPECTRA FROM VESTAS V150, SIEMENS SG4.5-145, AND NORDEX N149 WIND TURBINES <sup>12</sup>**

It is important to note that while winds may be blowing at turbine height, there may be little to no wind at ground level. This is especially true during strong wind gradients (high wind shear), which mostly occur at night. This can also occur on the leeward side of ridges where the ridge blocks the wind.

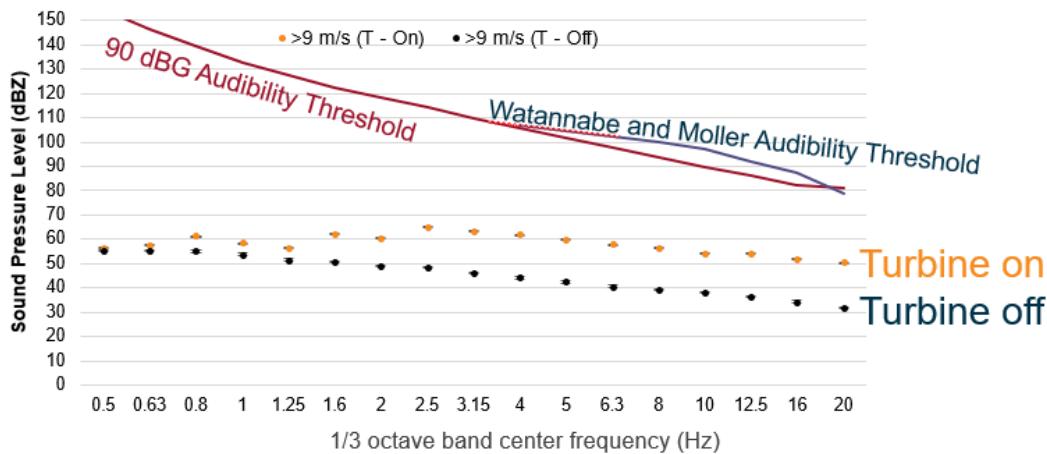
## Infrasound and Low-Frequency Sound

Infrasound is sound pressure fluctuations at frequencies below about 20 Hz. Sound below this frequency is only audible at high magnitudes. Low-frequency sound is in the audible range of human hearing, that is, above 20 Hz, but below 100 to 200 Hz depending on the definition.

Low-frequency aerodynamic tonal noise is typically associated with downwind rotors on horizontal axis wind turbines. In this configuration, the rotor plane is behind the tower relative to the oncoming wind. As the turbine blades rotate, each blade crosses behind the tower's aerodynamic wake and experiences brief load fluctuations. This causes short, low-frequency pulses or thumping sounds called blade impulsive noise. Large modern wind turbines are "upwind", where the rotor plane is upwind of the tower. As a result, this type of low-frequency noise is at a much lower magnitude with upwind turbines than downwind turbines, well below established infrasonic hearing thresholds.

<sup>12</sup> The purpose of this Figure is to show the shapes to two spectra relative to one another and not the actual sound level of the two sources of sound. The level of each source was normalized independently.

Figure 55 shows the sound levels 350 meters from a wind turbine when the wind turbine was operating (T-on) and shut down (T-off) for wind speeds at hub height greater than 9 m/s. Measurements were made over approximately two weeks.<sup>13</sup> The red 90 dBG line is shown here as the ISO 7196:1995 perceptibility threshold. As shown, the wind turbines generated measurable infrasound, but at least 20 dB below audibility thresholds.



**FIGURE 55: INFRASOUND FROM A WIND TURBINE AT 350 METERS COMPARED WITH PERCEPTION THRESHOLDS**

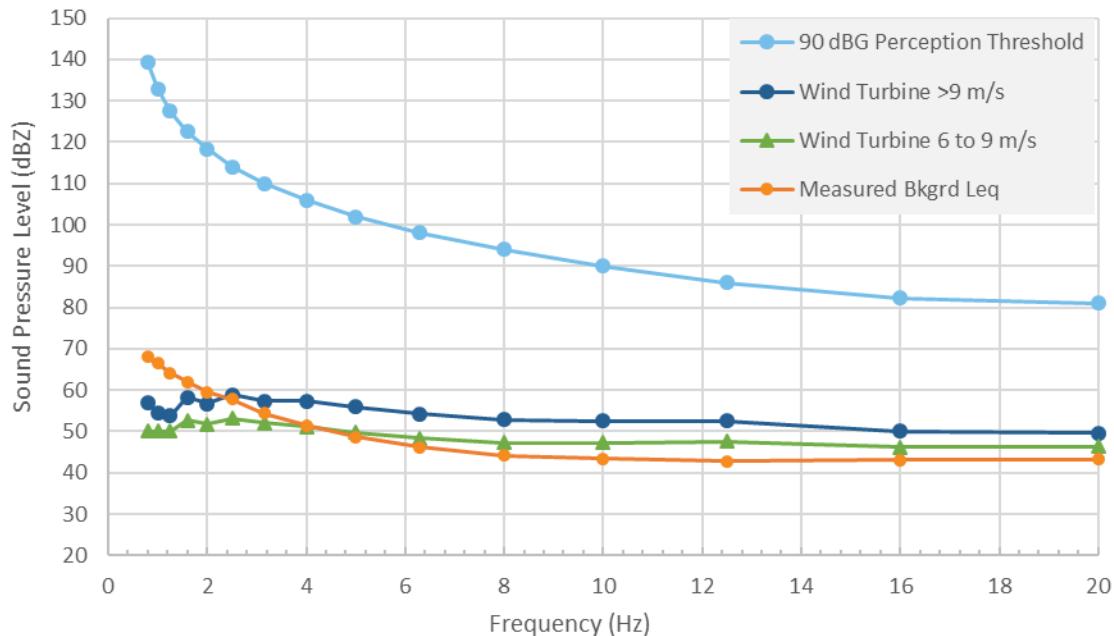
Existing background infrasound in rural areas are generally comparable to wind turbine infrasound at typical receptor distances. As an example, RSG measured background infrasound just east of the Boutwell Hill State Forest, a relatively remote area in the Town of Cherry Creek, NY.<sup>14</sup> We then compared these measured background levels to those measured 350 meters from an operating wind turbine in Massachusetts.<sup>15</sup> As shown in Figure 56, the background infrasound levels are generally within 10 dB of the wind turbine infrasound, even with the wind turbine operating with wind speeds greater than 9 m/s. In all cases, both background and wind turbine infrasound are over 30 dB below the 90 dBG infrasound perception threshold.

<sup>13</sup> RSG, et al., "Massachusetts Study on Wind Turbine Acoustics," Massachusetts Clean Energy Center and Massachusetts Department of Environmental Protection, 2016 – Graphic from RSG presentation to MassDEP WNTAG, March 2016

<sup>14</sup> RSG, "Cassadaga Wind Preconstruction Noise Impact Assessment," Prepared for Cassadaga Wind, LLC, May 2016.

<sup>15</sup> RSG, et al. "Massachusetts study on wind turbine acoustics." Prepared for MassCEC and MassDEP, February 2016





**FIGURE 56: COMPARISON OF MEASURED BACKGROUND INFRASOUND AT A REMOTE SITE IN CHERRY CREEK NY WITH THOSE FROM MEASURED 350 METERS FROM AN OPERATING WIND TURBINE AND THE 90 dBG PERCEPTION THRESHOLD.**

Low-frequency sound is produced, in part, by the generator and mechanical components. Much of this mechanical noise has been reduced in modern wind turbines through improved sound insulation at the hub. Low-frequency sound can also be generated by the blades at higher wind speeds when the inflow air is turbulent. At these wind speeds, low-frequency sound from the wind turbine blades is often masked by wind noise at the downwind receptors.

Finally, low-frequency sound is absorbed less by the atmosphere and ground than higher frequency sound. Our modeling takes into account frequency-specific ground attenuation and atmospheric absorption factors.

## Wind Turbine Noise Abatement Measures

Wind turbine noise can be abated using either factory-installed measures, siting methods, or measures implemented after the project is constructed.

### Wind Turbine Design

Horizontal axis wind turbines, with three blades, positioned upwind of the tower are the only type typically used for utility-scale wind power. Turbines with the blades positioned downwind of the tower are obsolete and cause more noise issues than upwind designs due to the blades passing through the wake of the tower. Vertical axis wind turbines are not available in megawatt scale.

The design of the blade can have a substantial impact on noise generation. Noise control is considered during the blade design process.

Some turbine models are available with serrated trailing edges, that reduce wind turbine aerodynamic noise by smoothing the flow of air behind the blade, reducing turbulence and therefore noise emissions. Depending on the turbine model selected for construction, serrated trailing edge technology may or may not be available. On some models, serrations can be installed after the project is constructed.

### ***Project Siting***

Changing of turbine setbacks from sensitive sound receptors can be used to decrease sound levels, however wind turbine layouts must also consider

- Energy production,
- Compliance with wind ordinance setback requirements,
- Compliance with setback requirements for other environmental conditions (water, flora, fauna, etc.),
- Spacing requirements for the turbines themselves,
- Access, and
- Landowner preferences.

As a result, modification of turbine arrangements to decrease sound pressure levels at receptors must be weighed against project performance and feasibility.

### ***Noise Reduced Operations (NRO)***

NROs are operations changes to the wind turbine to reduce noise generation. NROs are usually accomplished by adjusting turbine blade pitch, slowing the rotor speed of the turbines, which reduces aerodynamic noise produced by the blades. NROs are a readily available technology on most modern wind turbines and may be used to bring reduce turbine sound power to a level at or below the sound power of the turbine modeled in the Application. NROs can be implemented on an as-needed basis. For example, they can be programmed for selected wind speeds, wind directions, and times of day. The programs can be adjusted at any time after the wind turbines have commenced operations.

### ***Physical Abatement***

Due to the inherent size of wind turbines, many physical noise control measures, such as noise barriers, active noise control, and tree plantings, tend to be impractical and we are unaware of them being implemented at any operating wind projects. At receptors, white noise machines or air conditioning can be used to reduce the prominence of wind turbine noise inside buildings,



and the retrofits of residences, such as improved windows can be used to reduce interior sound levels.

## APPENDIX C. MODEL INPUT DATA

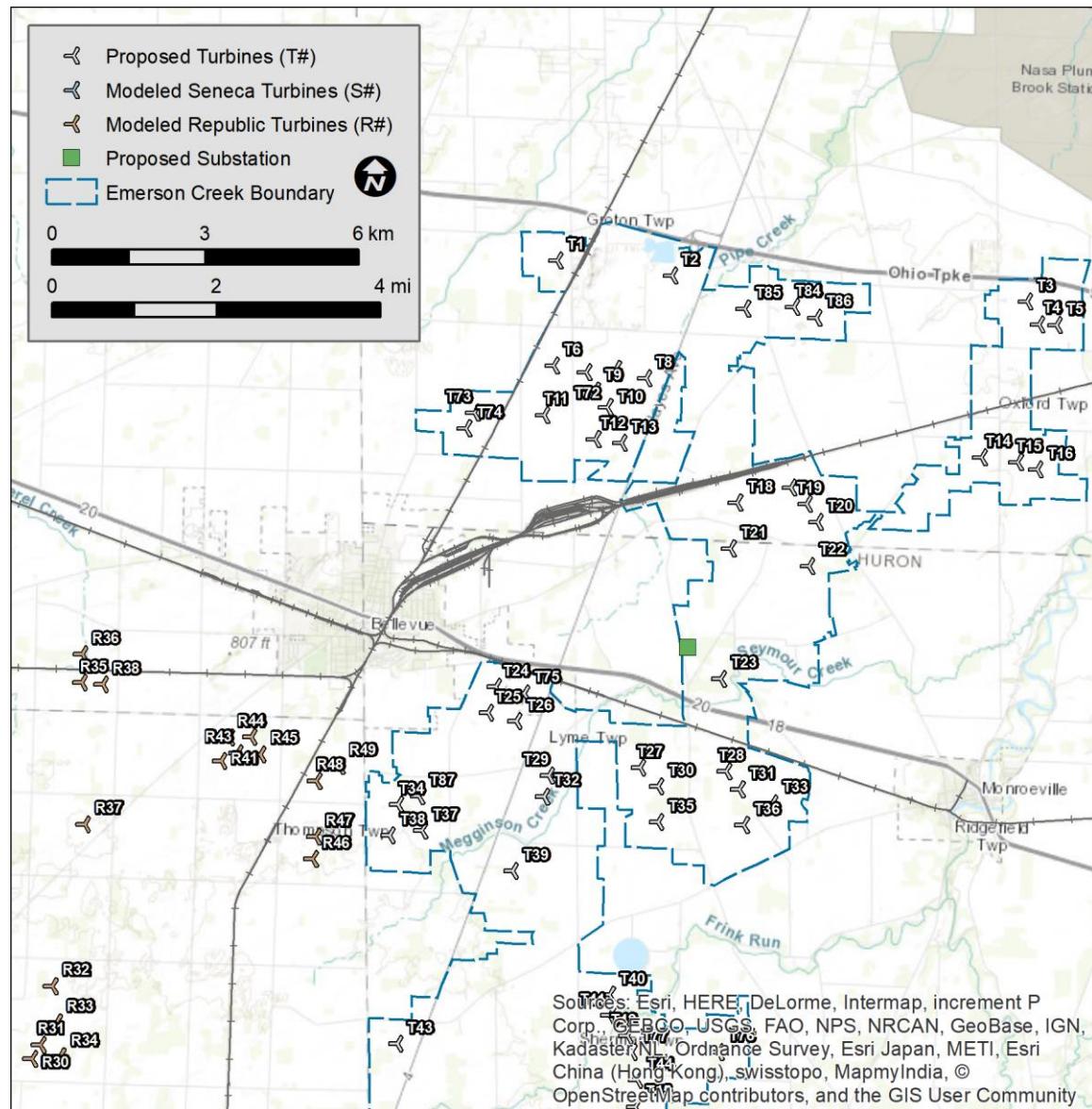


FIGURE 57: MAP OF MODELED SOURCES (NORTHERN AREA)

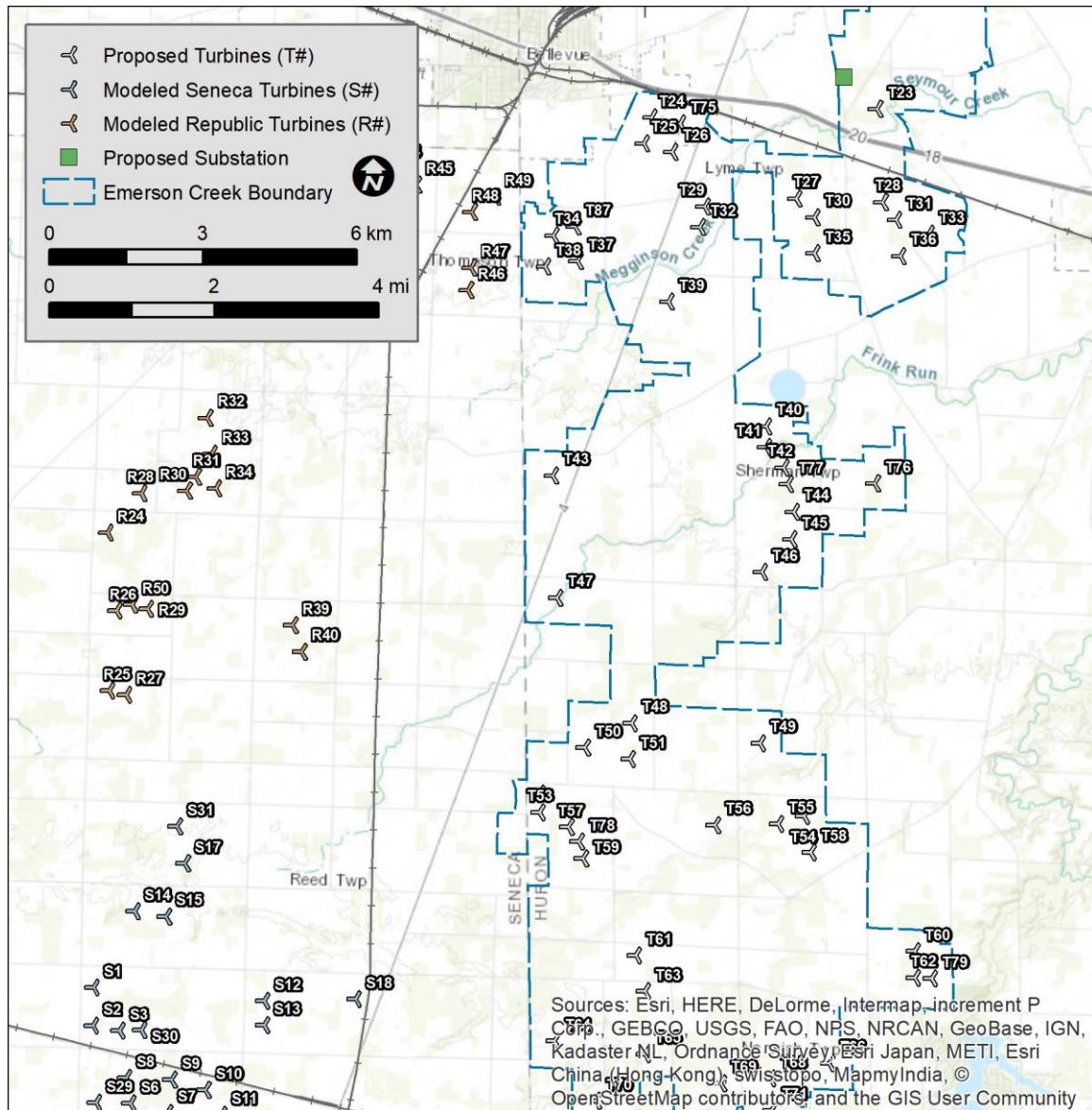
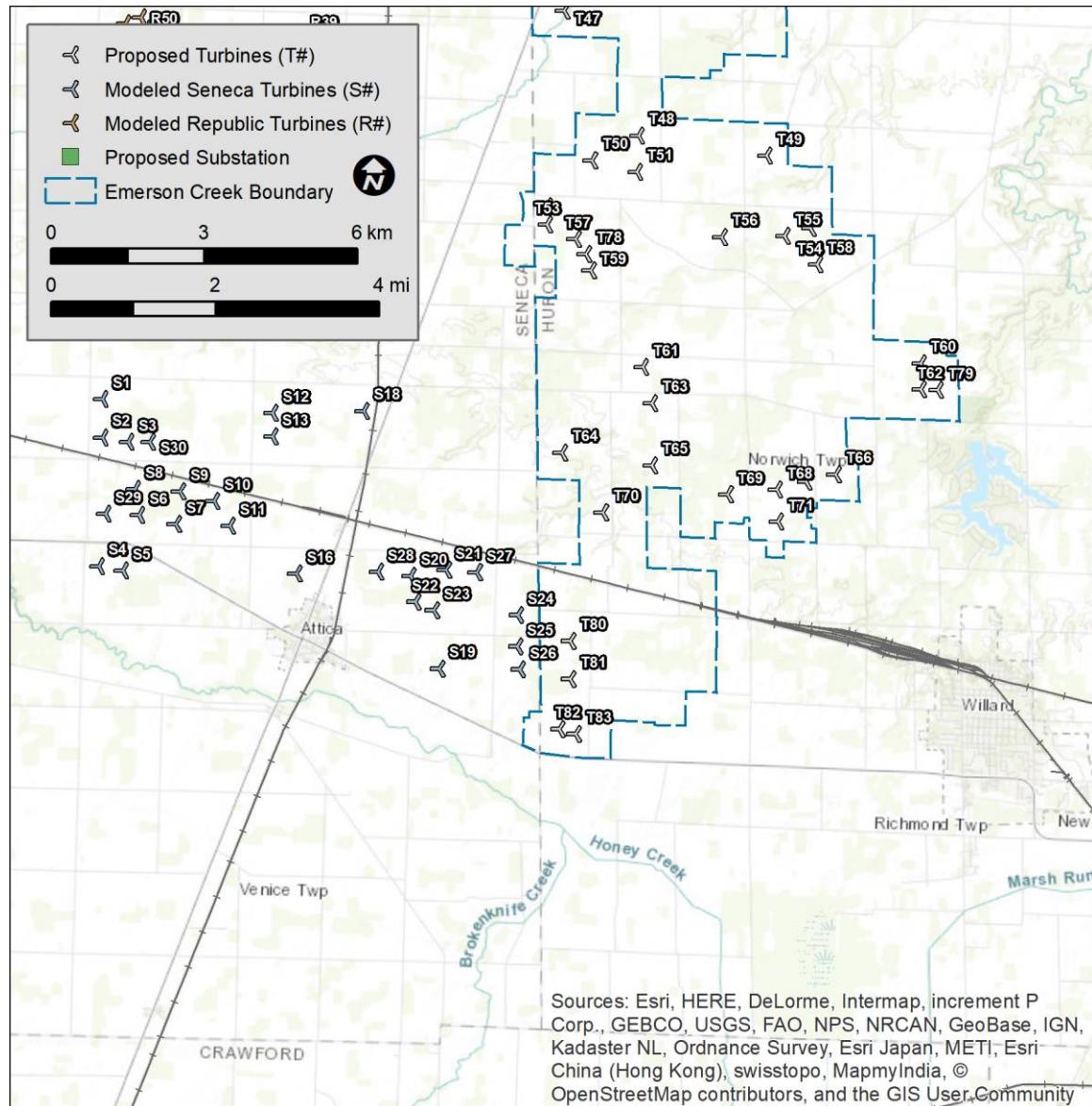


FIGURE 58: MAP OF MODELED SOURCES (MIDDLE AREA)

**FIGURE 59: MAP OF MODELED SOURCES (SOUTHERN AREA)****TABLE 6: SOUND PROPAGATION MODELING PARAMETERS**

| Parameter               | Setting  |
|-------------------------|--|
| Ground Absorption       | Spectral for all sources, Mixed Ground (G=0.5)     |
| Atmospheric Attenuation | Based on 10 Degrees Celsius, 70% Relative Humidity |
| Reflections             | None   |
| Receiver Height         | 4 meters for residences and grid                   |
| Search Distance         | 8,000 meters                                       |

## APPENDIX D. DETAILED MODEL RESULTS

This section provides the model results for each model run at all 3,236 sensitive receptors in Table 7. At the end of the results table are foldout maps (Figure 60 through Figure 65) that provides the location of the receptor IDs that corresponds to the IDs in the results table. The maps are 11"x17".

**TABLE 7: MODEL RESULTS AND RECEIVER COORDINATES FOR ALL SENSITIVE RECEPTORS**

| ID | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                       |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|----|-------------------|---|-------------------|---------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|    |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW<br>at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1  | Non-participating | 35                                      | 34                | 35                                    | 35                                 | 36            | 36   | 353229                        | 4555368 | 258                             |
| 2  | Non-participating | 39                                      | 38                | 39                                    | 39                                 | 40            | 40   | 351971                        | 4551976 | 270                             |
| 3  | Non-participating | 41                                      | 40                | 42                                    | 41                                 | 43            | 43   | 352230                        | 4569172 | 239                             |
| 4  | Non-participating | 33                                      | 32                | 33                                    | 33                                 | 35            | 37   | 348649                        | 4546603 | 295                             |
| 5  | Non-participating | 39                                      | 38                | 39                                    | 39                                 | 41            | 41   | 353658                        | 4568766 | 234                             |
| 6  | Participating     | 44                                      | 44                | 45                                    | 45                                 | 47            | 47   | 351513                        | 4556129 | 256                             |
| 7  | Non-participating | 43                                      | 42                | 43                                    | 43                                 | 45            | 45   | 347724                        | 4554982 | 265                             |
| 8  | Non-participating | 35                                      | 34                | 35                                    | 35                                 | 37            | 37   | 354816                        | 4551509 | 262                             |
| 9  | Non-participating | 40                                      | 39                | 40                                    | 40                                 | 41            | 41   | 353048                        | 4577587 | 222                             |
| 10 | Non-participating | 37                                      | 36                | 38                                    | 38                                 | 39            | 40   | 347147                        | 4569722 | 241                             |
| 11 | Participating     | 44                                      | 43                | 44                                    | 44                                 | 46            | 46   | 347408                        | 4556393 | 263                             |
| 12 | Participating     | 38                                      | 38                | 39                                    | 39                                 | 40            | 40   | 347106                        | 4553301 | 267                             |
| 13 | Non-participating | 37                                      | 36                | 37                                    | 37                                 | 38            | 38   | 352114                        | 4565265 | 240                             |
| 14 | Non-participating | 35                                      | 34                | 35                                    | 35                                 | 36            | 37   | 350187                        | 4548458 | 280                             |
| 15 | Non-participating | 42                                      | 41                | 43                                    | 43                                 | 44            | 46   | 345797                        | 4566154 | 248                             |
| 16 | Non-participating | 39                                      | 38                | 39                                    | 39                                 | 40            | 40   | 353657                        | 4569026 | 234                             |
| 17 | Non-participating | 33                                      | 32                | 34                                    | 34                                 | 35            | 36   | 345291                        | 4561441 | 258                             |
| 18 | Non-participating | 34                                      | 33                | 34                                    | 34                                 | 36            | 36   | 353382                        | 4555452 | 258                             |
| 19 | Participating     | 41                                      | 41                | 41                                    | 41                                 | 42            | 42   | 352856                        | 4570343 | 237                             |
| 20 | Non-participating | 37                                      | 36                | 38                                    | 38                                 | 39            | 39   | 352798                        | 4565458 | 238                             |
| 21 | Non-participating | 41                                      | 41                | 42                                    | 42                                 | 43            | 43   | 347892                        | 4569862 | 242                             |
| 22 | Non-participating | 35                                      | 34                | 35                                    | 35                                 | 36            | 40   | 345792                        | 4568779 | 242                             |
| 23 | Non-participating | 37                                      | 37                | 38                                    | 38                                 | 39            | 39   | 352606                        | 4553875 | 264                             |

| ID | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|----|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|    |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 24 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 34   | 350187                        | 4547405 | 287                             |
| 25 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 348655                        | 4566909 | 244                             |
| 26 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 350575                        | 4556102 | 255                             |
| 27 | Participating     | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 350270                        | 4551427 | 269                             |
| 28 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38         | 41   | 346094                        | 4550068 | 281                             |
| 29 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 357524                        | 4574391 | 220                             |
| 30 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 357523                        | 4574412 | 221                             |
| 31 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 358610                        | 4574557 | 217                             |
| 32 | Non-participating | 44                                      | 44             | 45                        | 45                        | 47         | 47   | 359196                        | 4575959 | 213                             |
| 33 | Participating     | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 352420                        | 4572652 | 233                             |
| 34 | Participating     | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 353513                        | 4571307 | 230                             |
| 35 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38         | 38   | 356876                        | 4574320 | 221                             |
| 36 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 356604                        | 4574142 | 221                             |
| 37 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 45   | 346674                        | 4548267 | 291                             |
| 38 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 354582                        | 4551944 | 256                             |
| 39 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 39   | 350352                        | 4554193 | 264                             |
| 40 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 351670                        | 4549484 | 274                             |
| 41 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 355503                        | 4576077 | 221                             |
| 42 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 359820                        | 4572362 | 213                             |
| 43 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 39   | 359948                        | 4573474 | 213                             |
| 44 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352845                        | 4577517 | 222                             |
| 45 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 353876                        | 4576036 | 225                             |
| 46 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41         | 41   | 352002                        | 4569123 | 240                             |
| 47 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 347527                        | 4551727 | 279                             |
| 48 | Participating     | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 348421                        | 4558912 | 255                             |
| 49 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 356218                        | 4576260 | 220                             |
| 50 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 357955                        | 4577125 | 218                             |
| 51 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 350566                        | 4565854 | 244                             |
| 52 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 41   | 347575                        | 4545306 | 292                             |
| 53 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 38   | 345869                        | 4563307 | 250                             |
| 54 | Participating     | 44                                      | 43             | 44                        | 44                        | 46         | 46   | 347645                        | 4555057 | 266                             |
| 55 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 34   | 350267                        | 4547660 | 283                             |
| 56 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 38   | 350180                        | 4548624 | 280                             |



| ID | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|    |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 57 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 353835                        | 4575824 | 223                             |
| 58 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 43   | 350022                        | 4568482 | 242                             |
| 59 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 44   | 348436                        | 4557851 | 257                             |
| 60 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 38   | 348345                        | 4548161 | 286                             |
| 61 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 360307                        | 4578181 | 211                             |
| 62 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354167                        | 4578198 | 212                             |
| 63 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 350113                        | 4562562 | 245                             |
| 64 | Participating     | 44                                      | 44             | 45                        | 45                        | 46            | 46   | 350095                        | 4562953 | 246                             |
| 65 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 40   | 346363                        | 4565208 | 248                             |
| 66 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 41   | 347752                        | 4570146 | 239                             |
| 67 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 38   | 346716                        | 4569681 | 241                             |
| 68 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 350087                        | 4554842 | 261                             |
| 69 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 35   | 348530                        | 4545212 | 291                             |
| 70 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347562                        | 4570399 | 236                             |
| 71 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 351992                        | 4553073 | 264                             |
| 72 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352661                        | 4551610 | 266                             |
| 73 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 357098                        | 4576124 | 220                             |
| 74 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 357991                        | 4577122 | 218                             |
| 75 | Participating     | 38                                      | 37             | 39                        | 38                        | 40            | 40   | 351886                        | 4572221 | 234                             |
| 76 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 350397                        | 4572776 | 229                             |
| 77 | Participating     | 47                                      | 46             | 48                        | 48                        | 49            | 49   | 354598                        | 4572195 | 225                             |
| 78 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 348305                        | 4573128 | 227                             |
| 79 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 346838                        | 4560484 | 254                             |
| 80 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 348422                        | 4578302 | 218                             |
| 81 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 359428                        | 4578463 | 213                             |
| 82 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 356336                        | 4573271 | 224                             |
| 83 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 355544                        | 4571708 | 225                             |
| 84 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 38   | 348854                        | 4548812 | 283                             |
| 85 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 346043                        | 4560379 | 256                             |
| 86 | Participating     | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 349686                        | 4560271 | 250                             |
| 87 | Participating     | 45                                      | 44             | 46                        | 45                        | 47            | 47   | 350142                        | 4557205 | 256                             |
| 88 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 349856                        | 4578512 | 223                             |
| 89 | Non-participating | 41                                      | 40             | 42                        | 41                        | 43            | 43   | 357466                        | 4574287 | 220                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 90  | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 360302                        | 4574299 | 212                             |
| 91  | Participating     | 44                                      | 43                | 45                                 | 44                                 | 46            | 46   | 352181                        | 4567715 | 240                             |
| 92  | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 351055                        | 4572206 | 234                             |
| 93  | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 348569                        | 4554584 | 261                             |
| 94  | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 46   | 345801                        | 4567370 | 244                             |
| 95  | Non-participating | 43                                      | 43                | 44                                 | 44                                 | 45            | 46   | 346311                        | 4567623 | 242                             |
| 96  | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 354709                        | 4576167 | 220                             |
| 97  | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 357759                        | 4572090 | 219                             |
| 98  | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 351676                        | 4563037 | 241                             |
| 99  | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354114                        | 4565428 | 234                             |
| 100 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 350070                        | 4564063 | 244                             |
| 101 | Participating     | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349601                        | 4558664 | 250                             |
| 102 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 348139                        | 4556289 | 262                             |
| 103 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 355457                        | 4572148 | 224                             |
| 104 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 352174                        | 4567157 | 240                             |
| 105 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 351193                        | 4553147 | 262                             |
| 106 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 347924                        | 4564968 | 248                             |
| 107 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 354055                        | 4566057 | 235                             |
| 108 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353435                        | 4555569 | 257                             |
| 109 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 37   | 345322                        | 4552965 | 275                             |
| 110 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356502                        | 4573493 | 224                             |
| 111 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 357296                        | 4574297 | 221                             |
| 112 | Participating     | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 345753                        | 4562890 | 254                             |
| 113 | Participating     | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 353826                        | 4577333 | 220                             |
| 114 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 46   | 345801                        | 4567317 | 244                             |
| 115 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347685                        | 4570183 | 238                             |
| 116 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351846                        | 4578748 | 224                             |
| 117 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 359272                        | 4578486 | 213                             |
| 118 | Participating     | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 351972                        | 4570994 | 235                             |
| 119 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356431                        | 4573515 | 223                             |
| 120 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 41            | 41   | 351512                        | 4569660 | 242                             |
| 121 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 346173                        | 4569216 | 241                             |
| 122 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 347671                        | 4570389 | 236                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 123 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 351043                        | 4554129 | 264                             |
| 124 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 353404                        | 4577741 | 218                             |
| 125 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38         | 38   | 350972                        | 4564942 | 242                             |
| 126 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31         | 32   | 350266                        | 4546388 | 297                             |
| 127 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44         | 46   | 345817                        | 4566194 | 248                             |
| 128 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 348411                        | 4562116 | 249                             |
| 129 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 352674                        | 4554779 | 261                             |
| 130 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 352437                        | 4551955 | 268                             |
| 131 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 39   | 360024                        | 4577342 | 214                             |
| 132 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 351530                        | 4578710 | 223                             |
| 133 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 352046                        | 4549462 | 272                             |
| 134 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 352624                        | 4553662 | 263                             |
| 135 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 346967                        | 4574989 | 225                             |
| 136 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 346807                        | 4569693 | 241                             |
| 137 | Participating     | 43                                      | 43             | 44                        | 44                        | 45         | 45   | 351700                        | 4562581 | 242                             |
| 138 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 34   | 349347                        | 4546655 | 295                             |
| 139 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 355024                        | 4566656 | 230                             |
| 140 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 41   | 348175                        | 4570335 | 238                             |
| 141 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 354876                        | 4551637 | 261                             |
| 142 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 354016                        | 4575678 | 222                             |
| 143 | Participating     | 46                                      | 45             | 46                        | 46                        | 48         | 48   | 349258                        | 4568017 | 246                             |
| 144 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 347943                        | 4573987 | 226                             |
| 145 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 352318                        | 4566469 | 240                             |
| 146 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 348849                        | 4569916 | 241                             |
| 147 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347596                        | 4570141 | 238                             |
| 148 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 349858                        | 4558561 | 253                             |
| 149 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 41   | 346701                        | 4565405 | 249                             |
| 150 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 38   | 347798                        | 4573124 | 227                             |
| 151 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 350383                        | 4572986 | 229                             |
| 152 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 353894                        | 4577969 | 215                             |
| 153 | Participating     | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 354049                        | 4572266 | 226                             |
| 154 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 345664                        | 4561060 | 257                             |
| 155 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 350006                        | 4562178 | 245                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 156 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351088                        | 4558585 | 252                             |
| 157 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 357719                        | 4574646 | 220                             |
| 158 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 357851                        | 4574638 | 220                             |
| 159 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 351996                        | 4569421 | 240                             |
| 160 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356588                        | 4573619 | 223                             |
| 161 | Non-participating | 36                                      | 35                | 36                                 | 37                                 | 38            | 38   | 344808                        | 4555561 | 269                             |
| 162 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 354329                        | 4568216 | 232                             |
| 163 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 42   | 345306                        | 4545729 | 289                             |
| 164 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 348455                        | 4562792 | 249                             |
| 165 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347693                        | 4565281 | 248                             |
| 166 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 345199                        | 4561430 | 259                             |
| 167 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 345464                        | 4560913 | 258                             |
| 168 | Non-participating | 35                                      | 34                | 36                                 | 36                                 | 37            | 37   | 354333                        | 4551170 | 264                             |
| 169 | Participating     | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352673                        | 4551172 | 270                             |
| 170 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 42   | 346468                        | 4549738 | 285                             |
| 171 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 358318                        | 4576290 | 216                             |
| 172 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 351808                        | 4578358 | 223                             |
| 173 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 352713                        | 4565517 | 238                             |
| 174 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 349233                        | 4576495 | 223                             |
| 175 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 347401                        | 4564043 | 248                             |
| 176 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 41   | 347395                        | 4569750 | 242                             |
| 177 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 38   | 346121                        | 4569209 | 241                             |
| 178 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 346203                        | 4558869 | 257                             |
| 179 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350401                        | 4578410 | 222                             |
| 180 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 355544                        | 4572258 | 224                             |
| 181 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 355665                        | 4572405 | 224                             |
| 182 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 46   | 346259                        | 4545337 | 294                             |
| 183 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 345964                        | 4561199 | 256                             |
| 184 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 353337                        | 4555182 | 258                             |
| 185 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 38   | 354436                        | 4551418 | 265                             |
| 186 | Non-participating | 42                                      | 42                | 43                                 | 43                                 | 44            | 44   | 353969                        | 4576188 | 223                             |
| 187 | Participating     | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 346571                        | 4561321 | 254                             |
| 188 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 345388                        | 4553453 | 274                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 189 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 352257                        | 4576347 | 223                             |
| 190 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 350993                        | 4569349 | 242                             |
| 191 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 348169                        | 4570098 | 240                             |
| 192 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 41   | 347724                        | 4570118 | 239                             |
| 193 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 348855                        | 4551861 | 272                             |
| 194 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 349960                        | 4552401 | 267                             |
| 195 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 38   | 345622                        | 4552512 | 276                             |
| 196 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354235                        | 4578242 | 211                             |
| 197 | Participating     | 48                                      | 47                | 49                                 | 49                                 | 50            | 50   | 349904                        | 4575140 | 223                             |
| 198 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 47   | 345218                        | 4567181 | 245                             |
| 199 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 46   | 345881                        | 4567518 | 243                             |
| 200 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 350589                        | 4556069 | 256                             |
| 201 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 38   | 347989                        | 4545233 | 288                             |
| 202 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 348870                        | 4576511 | 222                             |
| 203 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 352717                        | 4565375 | 238                             |
| 204 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 346375                        | 4560736 | 256                             |
| 205 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352943                        | 4555276 | 259                             |
| 206 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 354095                        | 4551863 | 262                             |
| 207 | Participating     | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 347145                        | 4549677 | 283                             |
| 208 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 354236                        | 4574932 | 223                             |
| 209 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 352520                        | 4576339 | 224                             |
| 210 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 347452                        | 4569757 | 243                             |
| 211 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 346262                        | 4560367 | 256                             |
| 212 | Participating     | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 350086                        | 4561425 | 246                             |
| 213 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 352869                        | 4554555 | 262                             |
| 214 | Participating     | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 350084                        | 4556125 | 258                             |
| 215 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356654                        | 4574331 | 220                             |
| 216 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 357357                        | 4574299 | 221                             |
| 217 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 357572                        | 4574389 | 220                             |
| 218 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 358235                        | 4574692 | 218                             |
| 219 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 351476                        | 4572625 | 233                             |
| 220 | Non-participating | 40                                      | 39                | 41                                 | 40                                 | 42            | 44   | 346936                        | 4548248 | 290                             |
| 221 | Non-participating | 43                                      | 43                | 44                                 | 44                                 | 45            | 45   | 351732                        | 4561166 | 243                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 222 | Participating     | 43                                      | 43                | 44                                 | 44                                 | 46            | 46   | 351041                        | 4556215 | 257                             |
| 223 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 354169                        | 4570124 | 231                             |
| 224 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 351028                        | 4557704 | 253                             |
| 225 | Non-participating | 43                                      | 43                | 44                                 | 44                                 | 45            | 45   | 347418                        | 4556330 | 263                             |
| 226 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356312                        | 4576163 | 220                             |
| 227 | Non-participating | 44                                      | 44                | 45                                 | 45                                 | 46            | 46   | 349910                        | 4567290 | 243                             |
| 228 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 350100                        | 4562231 | 245                             |
| 229 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 40   | 346647                        | 4552551 | 277                             |
| 230 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 352864                        | 4577559 | 222                             |
| 231 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 353959                        | 4575917 | 223                             |
| 232 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 350152                        | 4555457 | 256                             |
| 233 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 353769                        | 4551995 | 265                             |
| 234 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 42            | 42   | 351988                        | 4569306 | 242                             |
| 235 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347681                        | 4570145 | 238                             |
| 236 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 353873                        | 4568579 | 238                             |
| 237 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 349858                        | 4549572 | 276                             |
| 238 | Non-participating | 29                                      | 29                | 29                                 | 29                                 | 31            | 33   | 350196                        | 4546586 | 295                             |
| 239 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 39   | 347980                        | 4548181 | 286                             |
| 240 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 43   | 345557                        | 4545630 | 288                             |
| 241 | Participating     | 39                                      | 38                | 39                                 | 39                                 | 40            | 41   | 347959                        | 4565262 | 247                             |
| 242 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 345899                        | 4560556 | 256                             |
| 243 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 354541                        | 4551300 | 263                             |
| 244 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348842                        | 4578319 | 218                             |
| 245 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 354001                        | 4566061 | 235                             |
| 246 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 42   | 345882                        | 4568507 | 241                             |
| 247 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 350201                        | 4547321 | 288                             |
| 248 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 40   | 347591                        | 4565296 | 247                             |
| 249 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354445                        | 4551153 | 262                             |
| 250 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 357794                        | 4577110 | 218                             |
| 251 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 355981                        | 4572718 | 223                             |
| 252 | Participating     | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 350125                        | 4573402 | 226                             |
| 253 | Participating     | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 353814                        | 4578116 | 216                             |
| 254 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 44   | 345816                        | 4565902 | 248                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 255 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 348095                        | 4565598 | 246                             |
| 256 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 35   | 348645                        | 4545281 | 292                             |
| 257 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350206                        | 4546296 | 298                             |
| 258 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 40   | 345058                        | 4545318 | 287                             |
| 259 | Participating     | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347256                        | 4563342 | 248                             |
| 260 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347905                        | 4564854 | 248                             |
| 261 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 349127                        | 4556190 | 260                             |
| 262 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 39   | 345273                        | 4551786 | 280                             |
| 263 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350188                        | 4578550 | 223                             |
| 264 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 352613                        | 4577227 | 222                             |
| 265 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352044                        | 4569134 | 240                             |
| 266 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347300                        | 4569738 | 241                             |
| 267 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 348403                        | 4560972 | 251                             |
| 268 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352390                        | 4560308 | 242                             |
| 269 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 44   | 345720                        | 4549278 | 283                             |
| 270 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 354171                        | 4574759 | 222                             |
| 271 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 359876                        | 4574368 | 212                             |
| 272 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 349837                        | 4578271 | 224                             |
| 273 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347060                        | 4573920 | 224                             |
| 274 | Participating     | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 347583                        | 4563986 | 248                             |
| 275 | Participating     | 45                                      | 44                | 46                                 | 46                                 | 47            | 48   | 345961                        | 4566804 | 245                             |
| 276 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 39   | 346116                        | 4569168 | 241                             |
| 277 | Participating     | 45                                      | 44                | 45                                 | 45                                 | 47            | 47   | 350140                        | 4557015 | 258                             |
| 278 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 44   | 347266                        | 4545387 | 295                             |
| 279 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 346614                        | 4562783 | 253                             |
| 280 | Participating     | 47                                      | 47                | 47                                 | 47                                 | 47            | 47   | 352048                        | 4570388 | 236                             |
| 281 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 41            | 41   | 349773                        | 4573347 | 227                             |
| 282 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356307                        | 4573147 | 223                             |
| 283 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 350133                        | 4559428 | 250                             |
| 284 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 355437                        | 4572104 | 225                             |
| 285 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 348957                        | 4576500 | 222                             |
| 286 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 357907                        | 4577123 | 218                             |
| 287 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 350430                        | 4572693 | 228                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 288 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 350071                        | 4557308 | 256                             |
| 289 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 356127                        | 4576785 | 220                             |
| 290 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 35   | 350590                        | 4579082 | 221                             |
| 291 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 352144                        | 4569061 | 239                             |
| 292 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 357127                        | 4572096 | 220                             |
| 293 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 349992                        | 4564270 | 244                             |
| 294 | Participating     | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 348087                        | 4570209 | 240                             |
| 295 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347576                        | 4570429 | 235                             |
| 296 | Participating     | 33                                      | 33                | 34                                 | 34                                 | 35            | 37   | 349087                        | 4548134 | 284                             |
| 297 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 360015                        | 4578249 | 213                             |
| 298 | Participating     | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 352907                        | 4568928 | 234                             |
| 299 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 354483                        | 4577656 | 217                             |
| 300 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 354048                        | 4578008 | 215                             |
| 301 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 345895                        | 4560480 | 257                             |
| 302 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 353341                        | 4555532 | 258                             |
| 303 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 355639                        | 4571586 | 225                             |
| 304 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 47   | 345777                        | 4566429 | 247                             |
| 305 | Participating     | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 347708                        | 4567596 | 246                             |
| 306 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 37   | 345313                        | 4553002 | 275                             |
| 307 | Non-participating | 35                                      | 34                | 36                                 | 35                                 | 37            | 38   | 348760                        | 4548911 | 282                             |
| 308 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 35   | 350257                        | 4547795 | 284                             |
| 309 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350045                        | 4558666 | 252                             |
| 310 | Participating     | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 348787                        | 4556261 | 260                             |
| 311 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 36   | 345326                        | 4553206 | 273                             |
| 312 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 351558                        | 4549360 | 277                             |
| 313 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 357884                        | 4576036 | 218                             |
| 314 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348896                        | 4549284 | 280                             |
| 315 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 354609                        | 4566484 | 231                             |
| 316 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 348487                        | 4560910 | 249                             |
| 317 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 353167                        | 4570701 | 234                             |
| 318 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 33   | 349157                        | 4545190 | 294                             |
| 319 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 354350                        | 4552485 | 267                             |
| 320 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 42            | 42   | 352345                        | 4576711 | 223                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 321 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 348092                        | 4570309 | 238                             |
| 322 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347805                        | 4570109 | 240                             |
| 323 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347673                        | 4570121 | 238                             |
| 324 | Participating     | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 352600                        | 4553553 | 262                             |
| 325 | Participating     | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 352676                        | 4550799 | 266                             |
| 326 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 32   | 350265                        | 4546659 | 293                             |
| 327 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 43   | 347192                        | 4548158 | 290                             |
| 328 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 345881                        | 4562145 | 256                             |
| 329 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 345780                        | 4562224 | 256                             |
| 330 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 44   | 353508                        | 4551897 | 267                             |
| 331 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 348807                        | 4549619 | 278                             |
| 332 | Participating     | 42                                      | 41             | 43                        | 42                        | 44            | 44   | 359914                        | 4576818 | 214                             |
| 333 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 42   | 347552                        | 4565759 | 246                             |
| 334 | Participating     | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 347837                        | 4558618 | 256                             |
| 335 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 349549                        | 4556225 | 259                             |
| 336 | Participating     | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 347205                        | 4554311 | 269                             |
| 337 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 354012                        | 4577983 | 215                             |
| 338 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 43   | 345885                        | 4568343 | 241                             |
| 339 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347559                        | 4545255 | 291                             |
| 340 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347894                        | 4564883 | 248                             |
| 341 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 42   | 347556                        | 4565765 | 246                             |
| 342 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 37   | 354869                        | 4551676 | 260                             |
| 343 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354878                        | 4570381 | 228                             |
| 344 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 358324                        | 4576201 | 217                             |
| 345 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350761                        | 4569585 | 243                             |
| 346 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 350374                        | 4564617 | 244                             |
| 347 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 45   | 346924                        | 4549759 | 284                             |
| 348 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 346988                        | 4565325 | 247                             |
| 349 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 345596                        | 4561006 | 258                             |
| 350 | Participating     | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 347544                        | 4550966 | 274                             |
| 351 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 346663                        | 4562849 | 252                             |
| 352 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 353322                        | 4577656 | 219                             |
| 353 | Non-participating | 41                                      | 41             | 41                        | 41                        | 42            | 42   | 351983                        | 4569366 | 241                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 354 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 347584                        | 4565292 | 247                             |
| 355 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347723                        | 4570179 | 238                             |
| 356 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 353100                        | 4560695 | 240                             |
| 357 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348847                        | 4558644 | 251                             |
| 358 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 350500                        | 4579261 | 220                             |
| 359 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 358247                        | 4577901 | 218                             |
| 360 | Participating     | 46                                      | 45             | 47                        | 47                        | 48            | 48   | 353807                        | 4576810 | 224                             |
| 361 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351211                        | 4558529 | 251                             |
| 362 | Participating     | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 352684                        | 4552529 | 267                             |
| 363 | Non-participating | 31                                      | 30             | 32                        | 32                        | 33            | 33   | 360646                        | 4578091 | 210                             |
| 364 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 350394                        | 4572944 | 229                             |
| 365 | Participating     | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 352339                        | 4573592 | 225                             |
| 366 | Non-participating | 40                                      | 39             | 41                        | 40                        | 42            | 42   | 349125                        | 4576496 | 223                             |
| 367 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 43   | 345301                        | 4565438 | 250                             |
| 368 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 347800                        | 4569850 | 242                             |
| 369 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 349018                        | 4554113 | 267                             |
| 370 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 346541                        | 4562806 | 255                             |
| 371 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 348720                        | 4573901 | 225                             |
| 372 | Participating     | 41                                      | 40             | 42                        | 41                        | 43            | 43   | 349827                        | 4568777 | 243                             |
| 373 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 347630                        | 4570191 | 237                             |
| 374 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 350118                        | 4552148 | 267                             |
| 375 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 351818                        | 4553328 | 264                             |
| 376 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 353695                        | 4571653 | 229                             |
| 377 | Participating     | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 358358                        | 4574946 | 218                             |
| 378 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 348168                        | 4570526 | 237                             |
| 379 | Non-participating | 29                                      | 29             | 30                        | 29                        | 31            | 33   | 350165                        | 4546608 | 294                             |
| 380 | Participating     | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 348063                        | 4570148 | 241                             |
| 381 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 346386                        | 4561128 | 254                             |
| 382 | Participating     | 45                                      | 44             | 46                        | 46                        | 47            | 47   | 351627                        | 4562173 | 241                             |
| 383 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 348565                        | 4555317 | 264                             |
| 384 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 352691                        | 4552943 | 264                             |
| 385 | Non-participating | 42                                      | 42             | 43                        | 43                        | 45            | 45   | 359920                        | 4576696 | 213                             |
| 386 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 353974                        | 4562887 | 242                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 387 | Participating     | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 350248                        | 4551465 | 267                             |
| 388 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 42   | 347555                        | 4569766 | 243                             |
| 389 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 346202                        | 4558849 | 257                             |
| 390 | Participating     | 45                                      | 44             | 45                        | 45                        | 47            | 47   | 358397                        | 4576871 | 215                             |
| 391 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 354018                        | 4575635 | 222                             |
| 392 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 40   | 345116                        | 4545363 | 286                             |
| 393 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 41   | 346855                        | 4565400 | 247                             |
| 394 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 350220                        | 4578295 | 222                             |
| 395 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 351856                        | 4578925 | 224                             |
| 396 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 349397                        | 4568206 | 245                             |
| 397 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 352789                        | 4577937 | 222                             |
| 398 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347660                        | 4570210 | 237                             |
| 399 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 351771                        | 4561830 | 243                             |
| 400 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 351952                        | 4569438 | 240                             |
| 401 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 346036                        | 4562819 | 258                             |
| 402 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 350114                        | 4559700 | 247                             |
| 403 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 351996                        | 4549454 | 273                             |
| 404 | Participating     | 46                                      | 46             | 47                        | 47                        | 49            | 49   | 350142                        | 4550519 | 275                             |
| 405 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 354192                        | 4574827 | 223                             |
| 406 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 353503                        | 4575941 | 223                             |
| 407 | Non-participating | 43                                      | 43             | 44                        | 44                        | 46            | 46   | 354282                        | 4576189 | 221                             |
| 408 | Participating     | 42                                      | 42             | 43                        | 43                        | 45            | 45   | 350070                        | 4557364 | 256                             |
| 409 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 348177                        | 4563393 | 249                             |
| 410 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 347011                        | 4552480 | 278                             |
| 411 | Non-participating | 34                                      | 33             | 35                        | 34                        | 36            | 36   | 354832                        | 4551345 | 261                             |
| 412 | Participating     | 40                                      | 39             | 41                        | 40                        | 42            | 42   | 351450                        | 4549498 | 277                             |
| 413 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 352008                        | 4578698 | 224                             |
| 414 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 360641                        | 4572622 | 212                             |
| 415 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 355829                        | 4577665 | 222                             |
| 416 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 354024                        | 4575861 | 222                             |
| 417 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 347565                        | 4551197 | 277                             |
| 418 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 46   | 345797                        | 4567453 | 244                             |
| 419 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 360021                        | 4578306 | 212                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 420 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 352645                        | 4577524 | 222                             |
| 421 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 353437                        | 4576097 | 224                             |
| 422 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45         | 45   | 350017                        | 4563022 | 246                             |
| 423 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46         | 46   | 351657                        | 4562647 | 242                             |
| 424 | Participating     | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 349619                        | 4556157 | 259                             |
| 425 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 358284                        | 4574699 | 218                             |
| 426 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 39   | 351581                        | 4572652 | 234                             |
| 427 | Participating     | 47                                      | 46             | 48                        | 48                        | 49         | 49   | 349978                        | 4574706 | 223                             |
| 428 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 357582                        | 4574324 | 220                             |
| 429 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 350093                        | 4562379 | 245                             |
| 430 | Participating     | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 352497                        | 4555013 | 261                             |
| 431 | Participating     | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 351490                        | 4552901 | 264                             |
| 432 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 350293                        | 4578380 | 222                             |
| 433 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 360323                        | 4572529 | 213                             |
| 434 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 355984                        | 4572830 | 223                             |
| 435 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 349987                        | 4564393 | 244                             |
| 436 | Participating     | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 350156                        | 4553102 | 268                             |
| 437 | Participating     | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 347510                        | 4553283 | 267                             |
| 438 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 350531                        | 4569056 | 240                             |
| 439 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 347651                        | 4570131 | 238                             |
| 440 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 354332                        | 4553838 | 263                             |
| 441 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 44   | 347401                        | 4546746 | 298                             |
| 442 | Participating     | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 353964                        | 4566128 | 235                             |
| 443 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 43   | 347472                        | 4568103 | 243                             |
| 444 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 355571                        | 4571787 | 225                             |
| 445 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 41   | 346062                        | 4550304 | 281                             |
| 446 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32         | 34   | 350140                        | 4547226 | 288                             |
| 447 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45         | 46   | 345885                        | 4567227 | 243                             |
| 448 | Non-participating | 37                                      | 36             | 37                        | 38                        | 39         | 39   | 350422                        | 4572712 | 228                             |
| 449 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 355749                        | 4572534 | 223                             |
| 450 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 356546                        | 4572050 | 222                             |
| 451 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45         | 46   | 346278                        | 4567619 | 242                             |
| 452 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 353823                        | 4568555 | 237                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 453 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354508                        | 4551383 | 264                             |
| 454 | Participating     | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 349368                        | 4549669 | 277                             |
| 455 | Participating     | 34                                      | 33             | 34                        | 34                        | 36            | 37   | 347581                        | 4563973 | 248                             |
| 456 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 348946                        | 4578328 | 218                             |
| 457 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 349849                        | 4578580 | 222                             |
| 458 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 355632                        | 4572237 | 223                             |
| 459 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347334                        | 4569736 | 242                             |
| 460 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 353426                        | 4561634 | 241                             |
| 461 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 347380                        | 4553095 | 270                             |
| 462 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 353851                        | 4578050 | 215                             |
| 463 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 355870                        | 4571208 | 226                             |
| 464 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 356623                        | 4574339 | 219                             |
| 465 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 356468                        | 4577278 | 219                             |
| 466 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45            | 46   | 346153                        | 4545432 | 293                             |
| 467 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 44   | 345810                        | 4565930 | 249                             |
| 468 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347779                        | 4565267 | 248                             |
| 469 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347714                        | 4570152 | 239                             |
| 470 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 37   | 348460                        | 4546619 | 293                             |
| 471 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 35   | 348657                        | 4545285 | 292                             |
| 472 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 32   | 350203                        | 4546300 | 298                             |
| 473 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 350598                        | 4579138 | 221                             |
| 474 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352129                        | 4569071 | 239                             |
| 475 | Non-participating | 42                                      | 41             | 43                        | 42                        | 44            | 44   | 346741                        | 4562791 | 252                             |
| 476 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 46   | 345887                        | 4567695 | 242                             |
| 477 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 351774                        | 4562837 | 242                             |
| 478 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 346753                        | 4561495 | 254                             |
| 479 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 347562                        | 4556232 | 262                             |
| 480 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 354887                        | 4551539 | 261                             |
| 481 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 353057                        | 4550640 | 264                             |
| 482 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 350482                        | 4549391 | 277                             |
| 483 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 357511                        | 4576100 | 219                             |
| 484 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 349426                        | 4573471 | 227                             |
| 485 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 357997                        | 4574685 | 219                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 486 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 353261                        | 4577671 | 219                             |
| 487 | Participating     | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 352803                        | 4572744 | 229                             |
| 488 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 345898                        | 4560486 | 257                             |
| 489 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 46   | 345814                        | 4567816 | 242                             |
| 490 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 349535                        | 4566246 | 243                             |
| 491 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 357902                        | 4577210 | 219                             |
| 492 | Participating     | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 352270                        | 4567998 | 239                             |
| 493 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350880                        | 4572051 | 236                             |
| 494 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 355427                        | 4572058 | 226                             |
| 495 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 357092                        | 4574309 | 221                             |
| 496 | Participating     | 41                                      | 40                | 42                                 | 42                                 | 43            | 50   | 346100                        | 4547861 | 295                             |
| 497 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 39   | 346170                        | 4569165 | 241                             |
| 498 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 350157                        | 4554825 | 259                             |
| 499 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 355679                        | 4571604 | 225                             |
| 500 | Participating     | 44                                      | 44                | 45                                 | 45                                 | 46            | 46   | 352193                        | 4567289 | 242                             |
| 501 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 352253                        | 4567621 | 244                             |
| 502 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347479                        | 4570300 | 236                             |
| 503 | Participating     | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 347480                        | 4567871 | 244                             |
| 504 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345632                        | 4560981 | 257                             |
| 505 | Participating     | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349492                        | 4558680 | 251                             |
| 506 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349983                        | 4558640 | 252                             |
| 507 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 353932                        | 4578049 | 214                             |
| 508 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 41            | 41   | 349773                        | 4569705 | 243                             |
| 509 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 354625                        | 4567394 | 232                             |
| 510 | Participating     | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 354258                        | 4552740 | 264                             |
| 511 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 33   | 349153                        | 4545195 | 294                             |
| 512 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 356177                        | 4572974 | 223                             |
| 513 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 353169                        | 4577735 | 221                             |
| 514 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 349672                        | 4572655 | 230                             |
| 515 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 353042                        | 4570841 | 236                             |
| 516 | Non-participating | 38                                      | 37                | 39                                 | 38                                 | 40            | 40   | 348871                        | 4573395 | 226                             |
| 517 | Participating     | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 349922                        | 4573377 | 227                             |
| 518 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 350097                        | 4560304 | 248                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 519 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 346998                        | 4556297 | 264                             |
| 520 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 348931                        | 4553155 | 269                             |
| 521 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 348820                        | 4554397 | 266                             |
| 522 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 360407                        | 4578143 | 210                             |
| 523 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 359180                        | 4574345 | 214                             |
| 524 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 352880                        | 4577931 | 222                             |
| 525 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 350076                        | 4564911 | 244                             |
| 526 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 345628                        | 4561056 | 257                             |
| 527 | Participating     | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 350189                        | 4551977 | 267                             |
| 528 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 351177                        | 4549585 | 274                             |
| 529 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 351459                        | 4550162 | 273                             |
| 530 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 349876                        | 4578899 | 220                             |
| 531 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 350411                        | 4578458 | 222                             |
| 532 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 360683                        | 4576054 | 208                             |
| 533 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 43   | 345465                        | 4565556 | 250                             |
| 534 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 348156                        | 4569886 | 242                             |
| 535 | Participating     | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 350129                        | 4558088 | 255                             |
| 536 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 351377                        | 4548969 | 275                             |
| 537 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 360537                        | 4578144 | 209                             |
| 538 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 350360                        | 4572943 | 229                             |
| 539 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 45   | 345241                        | 4546338 | 297                             |
| 540 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 348209                        | 4570076 | 241                             |
| 541 | Non-participating | 43                                      | 43             | 44                        | 44                        | 46            | 46   | 350217                        | 4556764 | 257                             |
| 542 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 354503                        | 4551220 | 263                             |
| 543 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 352674                        | 4550401 | 270                             |
| 544 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 44   | 345907                        | 4565791 | 249                             |
| 545 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 346793                        | 4558645 | 258                             |
| 546 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 351275                        | 4554269 | 262                             |
| 547 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352590                        | 4577641 | 222                             |
| 548 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 41   | 345388                        | 4565187 | 250                             |
| 549 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 346730                        | 4565814 | 251                             |
| 550 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347711                        | 4570182 | 238                             |
| 551 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 345695                        | 4559201 | 257                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 552 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 357589                        | 4574590 | 220                             |
| 553 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 348963                        | 4576139 | 221                             |
| 554 | Non-participating | 43                                      | 42             | 44                        | 43                        | 45            | 45   | 358665                        | 4576046 | 217                             |
| 555 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 358247                        | 4577626 | 218                             |
| 556 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354941                        | 4570369 | 228                             |
| 557 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 347670                        | 4570347 | 236                             |
| 558 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 345685                        | 4561006 | 257                             |
| 559 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 350106                        | 4561367 | 246                             |
| 560 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 351184                        | 4554207 | 263                             |
| 561 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351222                        | 4578701 | 223                             |
| 562 | Participating     | 46                                      | 46             | 47                        | 47                        | 49            | 49   | 354467                        | 4572202 | 225                             |
| 563 | Participating     | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 349640                        | 4576668 | 224                             |
| 564 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 352166                        | 4568451 | 240                             |
| 565 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 39   | 345986                        | 4569177 | 241                             |
| 566 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 41   | 345738                        | 4562229 | 256                             |
| 567 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 351790                        | 4560113 | 246                             |
| 568 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 359212                        | 4578508 | 213                             |
| 569 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 352313                        | 4566468 | 239                             |
| 570 | Participating     | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 347602                        | 4566895 | 246                             |
| 571 | Participating     | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 351039                        | 4560143 | 247                             |
| 572 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 350127                        | 4558552 | 252                             |
| 573 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 40   | 346646                        | 4552558 | 277                             |
| 574 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 353743                        | 4576210 | 224                             |
| 575 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 349349                        | 4563858 | 246                             |
| 576 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 351691                        | 4561059 | 244                             |
| 577 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 354146                        | 4562143 | 240                             |
| 578 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 354189                        | 4561900 | 240                             |
| 579 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 354323                        | 4551800 | 254                             |
| 580 | Participating     | 46                                      | 45             | 47                        | 47                        | 49            | 49   | 347938                        | 4552465 | 276                             |
| 581 | Participating     | 44                                      | 43             | 45                        | 44                        | 46            | 46   | 359611                        | 4576021 | 214                             |
| 582 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 352574                        | 4565450 | 237                             |
| 583 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 348983                        | 4551490 | 274                             |
| 584 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 39   | 345263                        | 4551791 | 280                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 585 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347648                        | 4570158 | 238                             |
| 586 | Participating     | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352685                        | 4553323 | 264                             |
| 587 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 349468                        | 4546621 | 296                             |
| 588 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 357682                        | 4574744 | 219                             |
| 589 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 351191                        | 4569448 | 241                             |
| 590 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 41   | 346401                        | 4565410 | 249                             |
| 591 | Participating     | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 348074                        | 4570160 | 241                             |
| 592 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 348167                        | 4570444 | 236                             |
| 593 | Participating     | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 345851                        | 4559631 | 257                             |
| 594 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 353143                        | 4569988 | 233                             |
| 595 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356183                        | 4576161 | 220                             |
| 596 | Non-participating | 43                                      | 43                | 44                                 | 44                                 | 45            | 45   | 351467                        | 4574491 | 224                             |
| 597 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 353699                        | 4575477 | 224                             |
| 598 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 354146                        | 4576189 | 222                             |
| 599 | Non-participating | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 349349                        | 4568095 | 246                             |
| 600 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 353384                        | 4555317 | 258                             |
| 601 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 354621                        | 4573824 | 221                             |
| 602 | Non-participating | 41                                      | 41                | 41                                 | 41                                 | 42            | 42   | 351979                        | 4569374 | 241                             |
| 603 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350306                        | 4546386 | 297                             |
| 604 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 43   | 345568                        | 4545688 | 289                             |
| 605 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 346550                        | 4562812 | 255                             |
| 606 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 347411                        | 4569815 | 241                             |
| 607 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 37   | 345468                        | 4560743 | 257                             |
| 608 | Participating     | 43                                      | 43                | 44                                 | 44                                 | 46            | 46   | 348759                        | 4552313 | 273                             |
| 609 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 351597                        | 4549496 | 275                             |
| 610 | Non-participating | 35                                      | 34                | 36                                 | 36                                 | 37            | 37   | 351794                        | 4578679 | 224                             |
| 611 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 358321                        | 4576229 | 217                             |
| 612 | Participating     | 37                                      | 37                | 38                                 | 38                                 | 39            | 41   | 347842                        | 4546710 | 297                             |
| 613 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 351116                        | 4557711 | 253                             |
| 614 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 347647                        | 4555453 | 265                             |
| 615 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 348752                        | 4553216 | 270                             |
| 616 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 39   | 345449                        | 4554210 | 275                             |
| 617 | Participating     | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 350625                        | 4576196 | 225                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 618 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 346904                        | 4573988 | 223                             |
| 619 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 37   | 354364                        | 4551235 | 264                             |
| 620 | Participating     | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 352744                        | 4550496 | 269                             |
| 621 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 354141                        | 4574854 | 223                             |
| 622 | Participating     | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 358491                        | 4575609 | 217                             |
| 623 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 33   | 360674                        | 4572622 | 212                             |
| 624 | Participating     | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 351945                        | 4563446 | 239                             |
| 625 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 347256                        | 4545343 | 295                             |
| 626 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 46   | 345557                        | 4566604 | 245                             |
| 627 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 354352                        | 4569796 | 232                             |
| 628 | Participating     | 44                                      | 44             | 45                        | 45                        | 46         | 46   | 351675                        | 4561259 | 244                             |
| 629 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 351796                        | 4578897 | 224                             |
| 630 | Participating     | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 350079                        | 4563539 | 245                             |
| 631 | Participating     | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 348032                        | 4569818 | 242                             |
| 632 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 350124                        | 4559017 | 250                             |
| 633 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 353328                        | 4555474 | 258                             |
| 634 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41         | 41   | 355466                        | 4571860 | 225                             |
| 635 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 352223                        | 4569064 | 237                             |
| 636 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44         | 44   | 350040                        | 4567048 | 244                             |
| 637 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 40   | 345804                        | 4568847 | 242                             |
| 638 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 37   | 348549                        | 4546700 | 294                             |
| 639 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 41   | 345728                        | 4565326 | 249                             |
| 640 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35         | 37   | 345315                        | 4553177 | 273                             |
| 641 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 47   | 347115                        | 4547050 | 299                             |
| 642 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35         | 37   | 348593                        | 4546608 | 295                             |
| 643 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 352046                        | 4569307 | 241                             |
| 644 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 38   | 352057                        | 4565189 | 241                             |
| 645 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347659                        | 4570157 | 238                             |
| 646 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 39   | 345776                        | 4568972 | 242                             |
| 647 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 354357                        | 4553863 | 263                             |
| 648 | Participating     | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 348676                        | 4552509 | 274                             |
| 649 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 38   | 349630                        | 4572641 | 230                             |
| 650 | Participating     | 41                                      | 41             | 41                        | 41                        | 42         | 42   | 352901                        | 4570406 | 237                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 651 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36         | 36   | 353300                        | 4555378 | 258                             |
| 652 | Participating     | 44                                      | 44             | 45                        | 45                        | 46         | 46   | 351520                        | 4551282 | 271                             |
| 653 | Participating     | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 352439                        | 4572720 | 233                             |
| 654 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 39   | 348917                        | 4549246 | 279                             |
| 655 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 347961                        | 4565210 | 247                             |
| 656 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 354130                        | 4568440 | 232                             |
| 657 | Participating     | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 352549                        | 4577023 | 222                             |
| 658 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 353903                        | 4575974 | 224                             |
| 659 | Participating     | 43                                      | 42             | 43                        | 43                        | 44         | 44   | 353749                        | 4571891 | 228                             |
| 660 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 38   | 347869                        | 4573129 | 227                             |
| 661 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41         | 41   | 352003                        | 4569150 | 241                             |
| 662 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 39   | 345252                        | 4551767 | 281                             |
| 663 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 346961                        | 4562776 | 252                             |
| 664 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 39   | 347202                        | 4563018 | 250                             |
| 665 | Participating     | 43                                      | 42             | 43                        | 43                        | 45         | 46   | 346372                        | 4567707 | 242                             |
| 666 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 348415                        | 4560615 | 251                             |
| 667 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 39   | 346407                        | 4553366 | 271                             |
| 668 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 38   | 356804                        | 4574343 | 220                             |
| 669 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 356639                        | 4574023 | 222                             |
| 670 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 357864                        | 4577126 | 218                             |
| 671 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 39   | 348124                        | 4548220 | 286                             |
| 672 | Participating     | 30                                      | 29             | 30                        | 30                        | 32         | 34   | 349062                        | 4545265 | 293                             |
| 673 | Non-participating | 31                                      | 30             | 32                        | 32                        | 33         | 35   | 348733                        | 4545287 | 292                             |
| 674 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 34   | 350272                        | 4547453 | 286                             |
| 675 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 36   | 349039                        | 4548053 | 283                             |
| 676 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 356259                        | 4576464 | 221                             |
| 677 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 350216                        | 4578420 | 222                             |
| 678 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 351836                        | 4571816 | 235                             |
| 679 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 355494                        | 4572185 | 224                             |
| 680 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 39   | 349988                        | 4564379 | 244                             |
| 681 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39         | 40   | 347228                        | 4569729 | 242                             |
| 682 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 350572                        | 4556104 | 255                             |
| 683 | Participating     | 42                                      | 42             | 43                        | 43                        | 44         | 45   | 348790                        | 4552039 | 270                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 684 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 357523                        | 4574436 | 221                             |
| 685 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 358134                        | 4574682 | 218                             |
| 686 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 353119                        | 4577664 | 221                             |
| 687 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 355907                        | 4572735 | 223                             |
| 688 | Participating     | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 351382                        | 4574432 | 224                             |
| 689 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 354486                        | 4567965 | 233                             |
| 690 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 354434                        | 4551385 | 265                             |
| 691 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 347450                        | 4551641 | 279                             |
| 692 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 38   | 345873                        | 4563308 | 250                             |
| 693 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 347455                        | 4566665 | 246                             |
| 694 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350169                        | 4553813 | 264                             |
| 695 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 355574                        | 4571691 | 225                             |
| 696 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 358967                        | 4575963 | 215                             |
| 697 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347588                        | 4570390 | 236                             |
| 698 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 347581                        | 4570257 | 236                             |
| 699 | Non-participating | 44                                      | 43                | 44                                 | 44                                 | 46            | 46   | 348796                        | 4567729 | 247                             |
| 700 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350189                        | 4553105 | 267                             |
| 701 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 350255                        | 4549296 | 277                             |
| 702 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 352940                        | 4577907 | 223                             |
| 703 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347736                        | 4562612 | 251                             |
| 704 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 348047                        | 4565834 | 245                             |
| 705 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347747                        | 4570178 | 239                             |
| 706 | Participating     | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 348019                        | 4554197 | 264                             |
| 707 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 359641                        | 4578430 | 212                             |
| 708 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 348755                        | 4578314 | 218                             |
| 709 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 356373                        | 4573318 | 224                             |
| 710 | Participating     | 42                                      | 42                | 42                                 | 42                                 | 42            | 42   | 352013                        | 4570611 | 236                             |
| 711 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350046                        | 4558631 | 252                             |
| 712 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 351743                        | 4559373 | 244                             |
| 713 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 349986                        | 4556214 | 258                             |
| 714 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 352661                        | 4551611 | 266                             |
| 715 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356977                        | 4576132 | 219                             |
| 716 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 353512                        | 4570481 | 231                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 717 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 354102                        | 4578129 | 213                             |
| 718 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 351772                        | 4562341 | 242                             |
| 719 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 38   | 348244                        | 4548169 | 286                             |
| 720 | Participating     | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 345298                        | 4557378 | 263                             |
| 721 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 350572                        | 4578916 | 222                             |
| 722 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 351812                        | 4563174 | 240                             |
| 723 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 348823                        | 4554301 | 267                             |
| 724 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 351366                        | 4554327 | 261                             |
| 725 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 357423                        | 4574294 | 220                             |
| 726 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 360189                        | 4574323 | 211                             |
| 727 | Participating     | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 355489                        | 4577244 | 221                             |
| 728 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 352266                        | 4567695 | 241                             |
| 729 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 355432                        | 4572149 | 224                             |
| 730 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 346951                        | 4573920 | 225                             |
| 731 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 357180                        | 4574303 | 221                             |
| 732 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 35   | 350268                        | 4547842 | 283                             |
| 733 | Participating     | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 350097                        | 4560005 | 249                             |
| 734 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 352687                        | 4552846 | 264                             |
| 735 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 356521                        | 4573514 | 224                             |
| 736 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 34   | 348869                        | 4545187 | 293                             |
| 737 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 41   | 346035                        | 4544924 | 287                             |
| 738 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 351573                        | 4549097 | 276                             |
| 739 | Non-participating | 42                                      | 41             | 43                        | 42                        | 44            | 44   | 358324                        | 4576393 | 216                             |
| 740 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 352339                        | 4566412 | 239                             |
| 741 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 350877                        | 4572146 | 234                             |
| 742 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 353657                        | 4577655 | 218                             |
| 743 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 46   | 346219                        | 4567625 | 242                             |
| 744 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 354622                        | 4567620 | 232                             |
| 745 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351916                        | 4578753 | 224                             |
| 746 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 346907                        | 4575336 | 222                             |
| 747 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 357511                        | 4574526 | 220                             |
| 748 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 358323                        | 4576143 | 217                             |
| 749 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 352680                        | 4565496 | 238                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 750 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 354818                        | 4566508 | 232                             |
| 751 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 346174                        | 4569245 | 241                             |
| 752 | Participating     | 45                                      | 44                | 45                                 | 45                                 | 47            | 47   | 351708                        | 4561611 | 243                             |
| 753 | Participating     | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 348394                        | 4558597 | 254                             |
| 754 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 353330                        | 4555286 | 257                             |
| 755 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 43            | 43   | 354014                        | 4577451 | 218                             |
| 756 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 42            | 42   | 352344                        | 4576714 | 223                             |
| 757 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 40   | 345192                        | 4545287 | 286                             |
| 758 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 347501                        | 4563805 | 248                             |
| 759 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 347644                        | 4569840 | 242                             |
| 760 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 350014                        | 4562092 | 245                             |
| 761 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350112                        | 4559235 | 250                             |
| 762 | Participating     | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 352686                        | 4550451 | 270                             |
| 763 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 359332                        | 4578475 | 213                             |
| 764 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 359958                        | 4577418 | 213                             |
| 765 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 351858                        | 4578988 | 224                             |
| 766 | Participating     | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 351805                        | 4571238 | 235                             |
| 767 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345595                        | 4560990 | 257                             |
| 768 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350148                        | 4553377 | 266                             |
| 769 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 351240                        | 4554240 | 263                             |
| 770 | Non-participating | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 350305                        | 4550810 | 271                             |
| 771 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350976                        | 4564946 | 242                             |
| 772 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 46   | 345803                        | 4567357 | 244                             |
| 773 | Non-participating | 32                                      | 32                | 33                                 | 32                                 | 34            | 35   | 350269                        | 4547880 | 283                             |
| 774 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345689                        | 4561039 | 257                             |
| 775 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345658                        | 4561062 | 257                             |
| 776 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 349866                        | 4578224 | 223                             |
| 777 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 357834                        | 4574637 | 220                             |
| 778 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347604                        | 4570156 | 238                             |
| 779 | Participating     | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 351702                        | 4562804 | 243                             |
| 780 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 351470                        | 4551732 | 270                             |
| 781 | Participating     | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 352675                        | 4550109 | 272                             |
| 782 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354246                        | 4578189 | 213                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 783 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 353943                        | 4577980 | 215                             |
| 784 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 352790                        | 4565323 | 237                             |
| 785 | Participating     | 44                                      | 44             | 45                        | 45                        | 46            | 46   | 351697                        | 4562153 | 242                             |
| 786 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 348490                        | 4559530 | 253                             |
| 787 | Non-participating | 45                                      | 44             | 46                        | 45                        | 47            | 47   | 346742                        | 4556724 | 264                             |
| 788 | Participating     | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 350126                        | 4558014 | 255                             |
| 789 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 350409                        | 4572991 | 229                             |
| 790 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 360754                        | 4578010 | 209                             |
| 791 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 348167                        | 4570415 | 237                             |
| 792 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 32   | 350175                        | 4546265 | 297                             |
| 793 | Participating     | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 346580                        | 4554244 | 273                             |
| 794 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 45   | 350342                        | 4549535 | 276                             |
| 795 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 352204                        | 4576277 | 223                             |
| 796 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 358321                        | 4576318 | 216                             |
| 797 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 358304                        | 4578085 | 217                             |
| 798 | Non-participating | 42                                      | 41             | 42                        | 42                        | 43            | 43   | 349949                        | 4568273 | 242                             |
| 799 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 357840                        | 4574680 | 220                             |
| 800 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 38   | 346147                        | 4569240 | 241                             |
| 801 | Participating     | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 346788                        | 4558585 | 259                             |
| 802 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 353254                        | 4556040 | 257                             |
| 803 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347732                        | 4573126 | 227                             |
| 804 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 347095                        | 4545273 | 296                             |
| 805 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 42   | 345200                        | 4545754 | 289                             |
| 806 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 347245                        | 4562813 | 251                             |
| 807 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 348127                        | 4563335 | 249                             |
| 808 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 350107                        | 4559776 | 248                             |
| 809 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 348596                        | 4555286 | 264                             |
| 810 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 43   | 347885                        | 4549723 | 280                             |
| 811 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 352500                        | 4574832 | 224                             |
| 812 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 360051                        | 4573010 | 213                             |
| 813 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 352633                        | 4577746 | 222                             |
| 814 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347671                        | 4573443 | 226                             |
| 815 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 48   | 345355                        | 4546628 | 296                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 816 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 41   | 347422                        | 4569751 | 242                             |
| 817 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 357784                        | 4574631 | 220                             |
| 818 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 347101                        | 4573981 | 224                             |
| 819 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 42            | 43   | 348151                        | 4570106 | 240                             |
| 820 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 348418                        | 4561180 | 250                             |
| 821 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 353214                        | 4551893 | 270                             |
| 822 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 349687                        | 4552409 | 271                             |
| 823 | Participating     | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 350203                        | 4551016 | 270                             |
| 824 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 359982                        | 4576463 | 212                             |
| 825 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 42   | 346359                        | 4549648 | 282                             |
| 826 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 46   | 345797                        | 4567414 | 244                             |
| 827 | Non-participating | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 347844                        | 4569157 | 242                             |
| 828 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348483                        | 4558714 | 255                             |
| 829 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 351792                        | 4578780 | 224                             |
| 830 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 42   | 346461                        | 4565471 | 249                             |
| 831 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 347707                        | 4570121 | 239                             |
| 832 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 348011                        | 4569871 | 243                             |
| 833 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 348476                        | 4560720 | 250                             |
| 834 | Non-participating | 43                                      | 42                | 43                                 | 43                                 | 44            | 44   | 350160                        | 4562184 | 244                             |
| 835 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350115                        | 4558492 | 253                             |
| 836 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 355788                        | 4577835 | 220                             |
| 837 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 353220                        | 4575704 | 225                             |
| 838 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 354569                        | 4576160 | 220                             |
| 839 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 360581                        | 4572616 | 212                             |
| 840 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 349999                        | 4565708 | 244                             |
| 841 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 351578                        | 4549458 | 276                             |
| 842 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 353098                        | 4555340 | 258                             |
| 843 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 348796                        | 4576511 | 222                             |
| 844 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 352351                        | 4576345 | 223                             |
| 845 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 353144                        | 4570004 | 233                             |
| 846 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 347570                        | 4566093 | 245                             |
| 847 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 346990                        | 4558715 | 256                             |
| 848 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 347355                        | 4553143 | 268                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 849 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 355951                        | 4572682 | 223                             |
| 850 | Participating     | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 349117                        | 4549568 | 276                             |
| 851 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 42   | 346438                        | 4549702 | 284                             |
| 852 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 41   | 345721                        | 4565328 | 249                             |
| 853 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 355477                        | 4572161 | 224                             |
| 854 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 355417                        | 4571916 | 227                             |
| 855 | Non-participating | 45                                      | 44             | 46                        | 46                        | 47            | 47   | 355022                        | 4573074 | 223                             |
| 856 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 356252                        | 4576154 | 220                             |
| 857 | Non-participating | 44                                      | 44             | 45                        | 45                        | 47            | 47   | 349431                        | 4569208 | 242                             |
| 858 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 349642                        | 4572606 | 230                             |
| 859 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 40   | 345813                        | 4568883 | 242                             |
| 860 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 353139                        | 4569793 | 234                             |
| 861 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 350095                        | 4562235 | 245                             |
| 862 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352036                        | 4572642 | 233                             |
| 863 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 352909                        | 4577564 | 222                             |
| 864 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 46   | 345800                        | 4567218 | 244                             |
| 865 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 345996                        | 4561840 | 256                             |
| 866 | Participating     | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 352704                        | 4554608 | 262                             |
| 867 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 360061                        | 4578221 | 213                             |
| 868 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 357332                        | 4574297 | 220                             |
| 869 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 44   | 351656                        | 4562959 | 241                             |
| 870 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 349964                        | 4567481 | 242                             |
| 871 | Participating     | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 350129                        | 4550974 | 271                             |
| 872 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 44   | 345753                        | 4568254 | 242                             |
| 873 | Participating     | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 348818                        | 4556197 | 261                             |
| 874 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 354812                        | 4551533 | 263                             |
| 875 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 354426                        | 4551131 | 262                             |
| 876 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 349995                        | 4573422 | 226                             |
| 877 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 356530                        | 4574459 | 220                             |
| 878 | Participating     | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353805                        | 4578177 | 218                             |
| 879 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 350101                        | 4563273 | 246                             |
| 880 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 351782                        | 4562341 | 242                             |
| 881 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352663                        | 4551458 | 265                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 882 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 47   | 346721                        | 4545308 | 294                             |
| 883 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 41   | 346809                        | 4565397 | 248                             |
| 884 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 353194                        | 4555411 | 258                             |
| 885 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 347510                        | 4552119 | 277                             |
| 886 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 42   | 346091                        | 4549639 | 279                             |
| 887 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 346965                        | 4562776 | 252                             |
| 888 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 352979                        | 4556063 | 258                             |
| 889 | Participating     | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 345780                        | 4554139 | 276                             |
| 890 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 352190                        | 4549472 | 273                             |
| 891 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 352515                        | 4578738 | 227                             |
| 892 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 356767                        | 4574339 | 220                             |
| 893 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 357575                        | 4574410 | 220                             |
| 894 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 358181                        | 4574696 | 218                             |
| 895 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 353149                        | 4577675 | 220                             |
| 896 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 42   | 347575                        | 4546627 | 298                             |
| 897 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 346214                        | 4545413 | 293                             |
| 898 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347675                        | 4570149 | 238                             |
| 899 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 353957                        | 4568099 | 236                             |
| 900 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 350156                        | 4558839 | 251                             |
| 901 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 351464                        | 4551664 | 271                             |
| 902 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 40   | 347679                        | 4548237 | 287                             |
| 903 | Participating     | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 352520                        | 4577112 | 222                             |
| 904 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 350139                        | 4578425 | 222                             |
| 905 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 347938                        | 4573106 | 227                             |
| 906 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 33   | 349109                        | 4545249 | 294                             |
| 907 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347277                        | 4569738 | 241                             |
| 908 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 45   | 346325                        | 4567718 | 242                             |
| 909 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 46   | 345809                        | 4567858 | 242                             |
| 910 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 349710                        | 4558644 | 252                             |
| 911 | Participating     | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 346620                        | 4554278 | 272                             |
| 912 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 349778                        | 4569906 | 241                             |
| 913 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 356928                        | 4572044 | 221                             |
| 914 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 354903                        | 4576237 | 221                             |



| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 915 | Non-participating | 36                                      | 35             | 36                        | 37                        | 38            | 38   | 351969                        | 4564265 | 236                             |
| 916 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 354630                        | 4567471 | 232                             |
| 917 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 351808                        | 4560091 | 246                             |
| 918 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 38   | 345405                        | 4553915 | 278                             |
| 919 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 350381                        | 4572964 | 229                             |
| 920 | Participating     | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 356346                        | 4573173 | 223                             |
| 921 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 349801                        | 4578266 | 224                             |
| 922 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 355631                        | 4571598 | 225                             |
| 923 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 47   | 345895                        | 4566816 | 244                             |
| 924 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 347593                        | 4570274 | 236                             |
| 925 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 348055                        | 4567696 | 244                             |
| 926 | Participating     | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 349672                        | 4560262 | 250                             |
| 927 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 350163                        | 4549957 | 275                             |
| 928 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 357148                        | 4574305 | 221                             |
| 929 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 357881                        | 4574678 | 219                             |
| 930 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 354060                        | 4578082 | 214                             |
| 931 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352252                        | 4568752 | 238                             |
| 932 | Participating     | 44                                      | 43             | 44                        | 44                        | 45            | 45   | 351695                        | 4562580 | 242                             |
| 933 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 350487                        | 4564709 | 244                             |
| 934 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 345683                        | 4561023 | 257                             |
| 935 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 351045                        | 4558290 | 253                             |
| 936 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 350427                        | 4579034 | 221                             |
| 937 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 347123                        | 4573906 | 224                             |
| 938 | Participating     | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 351593                        | 4562809 | 242                             |
| 939 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 346775                        | 4569685 | 241                             |
| 940 | Participating     | 46                                      | 45             | 46                        | 46                        | 48            | 48   | 346662                        | 4556274 | 265                             |
| 941 | Participating     | 45                                      | 45             | 46                        | 46                        | 47            | 47   | 346699                        | 4556285 | 266                             |
| 942 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 345119                        | 4555767 | 267                             |
| 943 | Participating     | 38                                      | 37             | 39                        | 38                        | 40            | 40   | 355419                        | 4577211 | 222                             |
| 944 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 358264                        | 4576067 | 217                             |
| 945 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 355392                        | 4572153 | 224                             |
| 946 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 351472                        | 4551632 | 271                             |
| 947 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 350093                        | 4552649 | 269                             |

| ID  | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|-----|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|     |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 948 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 347638                        | 4552918 | 274                             |
| 949 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 353368                        | 4577748 | 218                             |
| 950 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 354680                        | 4566505 | 232                             |
| 951 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 351682                        | 4560860 | 246                             |
| 952 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 42   | 345999                        | 4549935 | 282                             |
| 953 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 44   | 345665                        | 4549252 | 284                             |
| 954 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 360174                        | 4573916 | 211                             |
| 955 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 352895                        | 4577886 | 222                             |
| 956 | Participating     | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 352186                        | 4567835 | 240                             |
| 957 | Participating     | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 349615                        | 4548101 | 285                             |
| 958 | Participating     | 39                                      | 38             | 40                        | 40                        | 41            | 43   | 347235                        | 4548163 | 290                             |
| 959 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 44   | 345203                        | 4565546 | 249                             |
| 960 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 41   | 346011                        | 4544926 | 287                             |
| 961 | Participating     | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 346802                        | 4563189 | 250                             |
| 962 | Participating     | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 351590                        | 4566165 | 242                             |
| 963 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 354867                        | 4551706 | 259                             |
| 964 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 347633                        | 4554303 | 268                             |
| 965 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 348961                        | 4573771 | 226                             |
| 966 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 350914                        | 4576328 | 225                             |
| 967 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 352685                        | 4565427 | 237                             |
| 968 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 45   | 345811                        | 4566113 | 248                             |
| 969 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 43   | 347751                        | 4569838 | 242                             |
| 970 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 354336                        | 4553542 | 260                             |
| 971 | Participating     | 39                                      | 38             | 39                        | 39                        | 41            | 42   | 347619                        | 4546710 | 298                             |
| 972 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 357519                        | 4574552 | 220                             |
| 973 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352326                        | 4576558 | 223                             |
| 974 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 360032                        | 4576959 | 213                             |
| 975 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 347161                        | 4567645 | 243                             |
| 976 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347793                        | 4570125 | 240                             |
| 977 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 348093                        | 4570528 | 236                             |
| 978 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 346459                        | 4560988 | 255                             |
| 979 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 350253                        | 4548933 | 281                             |
| 980 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45            | 46   | 347182                        | 4546195 | 292                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 981  | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347687                        | 4570125 | 238                             |
| 982  | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 41   | 346100                        | 4550230 | 280                             |
| 983  | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354673                        | 4570223 | 229                             |
| 984  | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 359381                        | 4578463 | 213                             |
| 985  | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 353836                        | 4577882 | 219                             |
| 986  | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 358324                        | 4576168 | 217                             |
| 987  | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 355624                        | 4572345 | 224                             |
| 988  | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 350003                        | 4565251 | 245                             |
| 989  | Non-participating | 31                                      | 30                | 32                                 | 32                                 | 33            | 33   | 360681                        | 4578051 | 209                             |
| 990  | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345606                        | 4561043 | 257                             |
| 991  | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 348486                        | 4559535 | 253                             |
| 992  | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 350254                        | 4554770 | 259                             |
| 993  | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352037                        | 4573772 | 226                             |
| 994  | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 348814                        | 4550416 | 276                             |
| 995  | Non-participating | 34                                      | 33                | 34                                 | 35                                 | 36            | 36   | 348477                        | 4560775 | 250                             |
| 996  | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350178                        | 4546266 | 297                             |
| 997  | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 353860                        | 4576204 | 224                             |
| 998  | Participating     | 46                                      | 45                | 47                                 | 47                                 | 48            | 48   | 349188                        | 4568594 | 242                             |
| 999  | Non-participating | 43                                      | 42                | 43                                 | 43                                 | 45            | 46   | 345898                        | 4567282 | 243                             |
| 1000 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 346353                        | 4562940 | 257                             |
| 1001 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 348520                        | 4562825 | 249                             |
| 1002 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 38   | 346842                        | 4575344 | 222                             |
| 1003 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 349887                        | 4578256 | 223                             |
| 1004 | Non-participating | 44                                      | 43                | 44                                 | 44                                 | 46            | 46   | 358897                        | 4575970 | 215                             |
| 1005 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 354501                        | 4567102 | 232                             |
| 1006 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 352816                        | 4561551 | 243                             |
| 1007 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 352167                        | 4552998 | 266                             |
| 1008 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 347527                        | 4553226 | 269                             |
| 1009 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 347050                        | 4573981 | 224                             |
| 1010 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 348894                        | 4576687 | 223                             |
| 1011 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 353865                        | 4575707 | 223                             |
| 1012 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 347547                        | 4569819 | 242                             |
| 1013 | Participating     | 46                                      | 45                | 47                                 | 47                                 | 48            | 49   | 346750                        | 4567586 | 242                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1014 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 347558                        | 4566094 | 245                             |
| 1015 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 34   | 350290                        | 4547598 | 285                             |
| 1016 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 356170                        | 4576511 | 221                             |
| 1017 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 358312                        | 4577993 | 218                             |
| 1018 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 353559                        | 4571374 | 230                             |
| 1019 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 352094                        | 4576282 | 223                             |
| 1020 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 353758                        | 4576127 | 224                             |
| 1021 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 352615                        | 4565593 | 239                             |
| 1022 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 350084                        | 4562200 | 245                             |
| 1023 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 351855                        | 4578894 | 224                             |
| 1024 | Participating     | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 348058                        | 4570129 | 241                             |
| 1025 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 351248                        | 4552131 | 268                             |
| 1026 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 34   | 349324                        | 4546573 | 295                             |
| 1027 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 349352                        | 4548038 | 283                             |
| 1028 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347018                        | 4575643 | 219                             |
| 1029 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 353909                        | 4575563 | 222                             |
| 1030 | Participating     | 44                                      | 44             | 45                        | 45                        | 47            | 47   | 358398                        | 4576931 | 216                             |
| 1031 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347664                        | 4570192 | 237                             |
| 1032 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 352414                        | 4566196 | 239                             |
| 1033 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 352669                        | 4576334 | 223                             |
| 1034 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351887                        | 4578752 | 224                             |
| 1035 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 350072                        | 4564060 | 244                             |
| 1036 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 351844                        | 4563189 | 241                             |
| 1037 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 348408                        | 4561940 | 250                             |
| 1038 | Participating     | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 350094                        | 4562068 | 243                             |
| 1039 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 352245                        | 4549448 | 275                             |
| 1040 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 359913                        | 4576629 | 213                             |
| 1041 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 352999                        | 4575300 | 225                             |
| 1042 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 354143                        | 4562647 | 240                             |
| 1043 | Participating     | 46                                      | 46             | 47                        | 47                        | 49            | 49   | 350142                        | 4550503 | 275                             |
| 1044 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 350138                        | 4551042 | 269                             |
| 1045 | Participating     | 44                                      | 44             | 45                        | 45                        | 46            | 46   | 350020                        | 4555293 | 259                             |
| 1046 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 351791                        | 4578807 | 224                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1047 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 351500                        | 4569368 | 243                             |
| 1048 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 348862                        | 4551191 | 272                             |
| 1049 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 348050                        | 4569879 | 242                             |
| 1050 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 33   | 360543                        | 4572597 | 212                             |
| 1051 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 355804                        | 4577739 | 220                             |
| 1052 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 353392                        | 4575782 | 224                             |
| 1053 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 351953                        | 4569336 | 242                             |
| 1054 | Participating     | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 351997                        | 4563400 | 239                             |
| 1055 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 351589                        | 4556129 | 256                             |
| 1056 | Participating     | 47                                      | 46             | 48                        | 48                        | 49         | 49   | 349990                        | 4574656 | 223                             |
| 1057 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 353196                        | 4563805 | 242                             |
| 1058 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 352618                        | 4565404 | 236                             |
| 1059 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46         | 46   | 347742                        | 4553279 | 272                             |
| 1060 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 351470                        | 4551566 | 271                             |
| 1061 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 41   | 345713                        | 4565364 | 249                             |
| 1062 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 354877                        | 4551600 | 262                             |
| 1063 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 350278                        | 4578437 | 222                             |
| 1064 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 360038                        | 4578064 | 211                             |
| 1065 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352773                        | 4577533 | 222                             |
| 1066 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 350575                        | 4566210 | 242                             |
| 1067 | Participating     | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 352148                        | 4567052 | 240                             |
| 1068 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 351670                        | 4563033 | 241                             |
| 1069 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 36   | 345342                        | 4561445 | 259                             |
| 1070 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 345820                        | 4558760 | 259                             |
| 1071 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 35   | 349120                        | 4546580 | 294                             |
| 1072 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 358335                        | 4574658 | 218                             |
| 1073 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41         | 41   | 352044                        | 4568916 | 239                             |
| 1074 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347642                        | 4570135 | 238                             |
| 1075 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 347914                        | 4569868 | 243                             |
| 1076 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 353763                        | 4568752 | 234                             |
| 1077 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41         | 41   | 345885                        | 4560119 | 258                             |
| 1078 | Non-participating | 34                                      | 33             | 35                        | 34                        | 36         | 36   | 353288                        | 4555449 | 258                             |
| 1079 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 356077                        | 4572844 | 223                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1080 | Participating     | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350092                        | 4564453 | 244                             |
| 1081 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 352770                        | 4565542 | 238                             |
| 1082 | Participating     | 43                                      | 43             | 44                        | 44                        | 45            | 46   | 347370                        | 4567520 | 245                             |
| 1083 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351284                        | 4558502 | 251                             |
| 1084 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 351539                        | 4557672 | 252                             |
| 1085 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 354254                        | 4553007 | 263                             |
| 1086 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 355850                        | 4571264 | 226                             |
| 1087 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 355021                        | 4576211 | 222                             |
| 1088 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350416                        | 4572759 | 228                             |
| 1089 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 355825                        | 4572628 | 223                             |
| 1090 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 355710                        | 4572466 | 224                             |
| 1091 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 47   | 346439                        | 4567620 | 242                             |
| 1092 | Participating     | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 348416                        | 4558915 | 255                             |
| 1093 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 35   | 349910                        | 4548035 | 283                             |
| 1094 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 45   | 346811                        | 4548270 | 289                             |
| 1095 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 360068                        | 4572915 | 213                             |
| 1096 | Participating     | 45                                      | 45             | 46                        | 46                        | 48            | 48   | 359105                        | 4576036 | 214                             |
| 1097 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 358073                        | 4577203 | 218                             |
| 1098 | Participating     | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 350690                        | 4556090 | 257                             |
| 1099 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 354424                        | 4551354 | 265                             |
| 1100 | Participating     | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 356678                        | 4573662 | 224                             |
| 1101 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 358038                        | 4574686 | 219                             |
| 1102 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 353054                        | 4577649 | 223                             |
| 1103 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 350109                        | 4562559 | 245                             |
| 1104 | Participating     | 46                                      | 45             | 47                        | 47                        | 48            | 48   | 346516                        | 4545426 | 295                             |
| 1105 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 46   | 345804                        | 4567260 | 244                             |
| 1106 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 347448                        | 4566657 | 246                             |
| 1107 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 347733                        | 4570150 | 239                             |
| 1108 | Participating     | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 348018                        | 4554207 | 265                             |
| 1109 | Non-participating | 43                                      | 42             | 44                        | 43                        | 45            | 45   | 351472                        | 4549995 | 269                             |
| 1110 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 355673                        | 4572156 | 223                             |
| 1111 | Participating     | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 355507                        | 4571788 | 226                             |
| 1112 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 356215                        | 4576303 | 220                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1113 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 40   | 347292                        | 4565303 | 246                             |
| 1114 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 350221                        | 4556192 | 257                             |
| 1115 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 357985                        | 4577207 | 218                             |
| 1116 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350921                        | 4572082 | 235                             |
| 1117 | Non-participating | 43                                      | 42                | 43                                 | 43                                 | 44            | 44   | 349916                        | 4573710 | 226                             |
| 1118 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 350013                        | 4562364 | 245                             |
| 1119 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 45   | 345792                        | 4566007 | 249                             |
| 1120 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 354437                        | 4551564 | 264                             |
| 1121 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 350591                        | 4579172 | 220                             |
| 1122 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 360220                        | 4578117 | 212                             |
| 1123 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348415                        | 4573104 | 227                             |
| 1124 | Participating     | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 350315                        | 4566303 | 244                             |
| 1125 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 352429                        | 4566126 | 238                             |
| 1126 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 347162                        | 4562920 | 250                             |
| 1127 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 46   | 345882                        | 4567698 | 242                             |
| 1128 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350169                        | 4548801 | 281                             |
| 1129 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 348218                        | 4545360 | 289                             |
| 1130 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 353192                        | 4577651 | 220                             |
| 1131 | Participating     | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 352776                        | 4572423 | 230                             |
| 1132 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 356988                        | 4574315 | 221                             |
| 1133 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 352893                        | 4577905 | 222                             |
| 1134 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 354181                        | 4578116 | 213                             |
| 1135 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 349998                        | 4564598 | 245                             |
| 1136 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 352183                        | 4567587 | 242                             |
| 1137 | Non-participating | 43                                      | 43                | 44                                 | 44                                 | 46            | 47   | 345804                        | 4566473 | 247                             |
| 1138 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 348312                        | 4578329 | 219                             |
| 1139 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 349930                        | 4578372 | 224                             |
| 1140 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 355532                        | 4571761 | 225                             |
| 1141 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 350624                        | 4572696 | 227                             |
| 1142 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349681                        | 4558648 | 251                             |
| 1143 | Non-participating | 44                                      | 43                | 45                                 | 45                                 | 46            | 46   | 354660                        | 4576156 | 220                             |
| 1144 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 350034                        | 4569643 | 242                             |
| 1145 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352083                        | 4564893 | 237                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1146 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43         | 43   | 353375                        | 4569349 | 233                             |
| 1147 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 352501                        | 4560283 | 243                             |
| 1148 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 351705                        | 4554548 | 259                             |
| 1149 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 350089                        | 4554841 | 261                             |
| 1150 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 347591                        | 4560908 | 253                             |
| 1151 | Participating     | 45                                      | 44             | 46                        | 45                        | 47         | 47   | 350135                        | 4557137 | 257                             |
| 1152 | Participating     | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 348836                        | 4549074 | 279                             |
| 1153 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 357250                        | 4574297 | 221                             |
| 1154 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 350479                        | 4564704 | 244                             |
| 1155 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 352683                        | 4552800 | 265                             |
| 1156 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 350050                        | 4567872 | 242                             |
| 1157 | Non-participating | 36                                      | 35             | 37                        | 36                        | 38         | 38   | 349659                        | 4572628 | 230                             |
| 1158 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 353825                        | 4566506 | 234                             |
| 1159 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 33   | 360482                        | 4578141 | 210                             |
| 1160 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 356029                        | 4577219 | 220                             |
| 1161 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 347629                        | 4570372 | 236                             |
| 1162 | Participating     | 40                                      | 39             | 41                        | 40                        | 42         | 42   | 352673                        | 4552347 | 268                             |
| 1163 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31         | 32   | 350270                        | 4546389 | 297                             |
| 1164 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 346137                        | 4562885 | 259                             |
| 1165 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 359245                        | 4578493 | 213                             |
| 1166 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 353104                        | 4570939 | 234                             |
| 1167 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347680                        | 4570190 | 238                             |
| 1168 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 37   | 345618                        | 4560981 | 257                             |
| 1169 | Participating     | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 347251                        | 4554344 | 269                             |
| 1170 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 351474                        | 4578708 | 223                             |
| 1171 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 358277                        | 4573337 | 218                             |
| 1172 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 352783                        | 4577306 | 222                             |
| 1173 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 348186                        | 4570084 | 240                             |
| 1174 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 347604                        | 4554855 | 265                             |
| 1175 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 351258                        | 4554136 | 261                             |
| 1176 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 356509                        | 4574567 | 220                             |
| 1177 | Non-participating | 42                                      | 42             | 43                        | 43                        | 45         | 46   | 345821                        | 4566197 | 248                             |
| 1178 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 352046                        | 4549461 | 272                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1179 | Non-participating | 46                                      | 45                | 47                                 | 47                                 | 48            | 48   | 350209                        | 4550467 | 276                             |
| 1180 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 348467                        | 4561661 | 250                             |
| 1181 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 351038                        | 4554215 | 263                             |
| 1182 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351304                        | 4578706 | 222                             |
| 1183 | Participating     | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 347609                        | 4573941 | 226                             |
| 1184 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347149                        | 4573210 | 227                             |
| 1185 | Non-participating | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 349348                        | 4576426 | 223                             |
| 1186 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 349293                        | 4576491 | 223                             |
| 1187 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356197                        | 4576086 | 220                             |
| 1188 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 348161                        | 4570177 | 241                             |
| 1189 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347373                        | 4569808 | 241                             |
| 1190 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 45   | 345804                        | 4566058 | 248                             |
| 1191 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 46   | 345520                        | 4566585 | 246                             |
| 1192 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 355306                        | 4566664 | 230                             |
| 1193 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 349201                        | 4576494 | 223                             |
| 1194 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 360020                        | 4575590 | 213                             |
| 1195 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 358322                        | 4576063 | 217                             |
| 1196 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 346947                        | 4574899 | 224                             |
| 1197 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 350779                        | 4566294 | 243                             |
| 1198 | Participating     | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 352668                        | 4565517 | 238                             |
| 1199 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345595                        | 4561016 | 258                             |
| 1200 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 352022                        | 4560145 | 243                             |
| 1201 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 345969                        | 4552596 | 275                             |
| 1202 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354195                        | 4578214 | 212                             |
| 1203 | Non-participating | 44                                      | 43                | 44                                 | 44                                 | 46            | 46   | 349510                        | 4568221 | 246                             |
| 1204 | Non-participating | 44                                      | 44                | 45                                 | 45                                 | 46            | 46   | 353482                        | 4572366 | 227                             |
| 1205 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 354808                        | 4568470 | 230                             |
| 1206 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 45   | 345235                        | 4546346 | 296                             |
| 1207 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345674                        | 4561056 | 257                             |
| 1208 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351773                        | 4559441 | 244                             |
| 1209 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 353249                        | 4555420 | 258                             |
| 1210 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 357581                        | 4574470 | 220                             |
| 1211 | Participating     | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 353769                        | 4572075 | 228                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1212 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 352705                        | 4553713 | 265                             |
| 1213 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 354842                        | 4551381 | 262                             |
| 1214 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 348493                        | 4560883 | 249                             |
| 1215 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352458                        | 4576342 | 224                             |
| 1216 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 360780                        | 4577756 | 210                             |
| 1217 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 354376                        | 4551272 | 264                             |
| 1218 | Non-participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 352005                        | 4569424 | 240                             |
| 1219 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 355517                        | 4572218 | 224                             |
| 1220 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 347709                        | 4573124 | 228                             |
| 1221 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347627                        | 4570134 | 238                             |
| 1222 | Non-participating | 30                                      | 30             | 31                        | 30                        | 32         | 34   | 349543                        | 4546532 | 295                             |
| 1223 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 348317                        | 4563513 | 249                             |
| 1224 | Non-participating | 41                                      | 40             | 42                        | 41                        | 43         | 45   | 345826                        | 4565981 | 249                             |
| 1225 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 347824                        | 4565279 | 248                             |
| 1226 | Participating     | 35                                      | 34             | 36                        | 36                        | 37         | 37   | 345682                        | 4561488 | 257                             |
| 1227 | Non-participating | 34                                      | 33             | 35                        | 34                        | 36         | 36   | 345484                        | 4560819 | 258                             |
| 1228 | Participating     | 45                                      | 45             | 46                        | 46                        | 48         | 48   | 351481                        | 4556074 | 256                             |
| 1229 | Participating     | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 354027                        | 4576192 | 223                             |
| 1230 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 351085                        | 4569388 | 242                             |
| 1231 | Participating     | 45                                      | 44             | 46                        | 46                        | 47         | 47   | 351546                        | 4551216 | 270                             |
| 1232 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 354175                        | 4561977 | 240                             |
| 1233 | Participating     | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 350055                        | 4559074 | 251                             |
| 1234 | Participating     | 39                                      | 38             | 40                        | 39                        | 41         | 41   | 345901                        | 4559672 | 257                             |
| 1235 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 350363                        | 4578401 | 222                             |
| 1236 | Participating     | 44                                      | 44             | 45                        | 45                        | 47         | 47   | 358395                        | 4576976 | 216                             |
| 1237 | Participating     | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 351379                        | 4574429 | 224                             |
| 1238 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352297                        | 4576348 | 223                             |
| 1239 | Non-participating | 42                                      | 42             | 43                        | 43                        | 45         | 45   | 359624                        | 4575927 | 214                             |
| 1240 | Participating     | 45                                      | 44             | 45                        | 45                        | 47         | 47   | 352411                        | 4569664 | 238                             |
| 1241 | Participating     | 39                                      | 38             | 39                        | 39                        | 40         | 41   | 349338                        | 4549590 | 278                             |
| 1242 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 45   | 347095                        | 4545324 | 296                             |
| 1243 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 36   | 345168                        | 4561610 | 259                             |
| 1244 | Participating     | 38                                      | 37             | 39                        | 39                        | 40         | 40   | 349175                        | 4553214 | 269                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1245 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352136                        | 4551836 | 270                             |
| 1246 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 346830                        | 4573771 | 224                             |
| 1247 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 35   | 348533                        | 4545220 | 291                             |
| 1248 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347479                        | 4569761 | 243                             |
| 1249 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 346779                        | 4565277 | 248                             |
| 1250 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 37   | 351843                        | 4578681 | 224                             |
| 1251 | Non-participating | 33                                      | 32             | 34                        | 33                        | 35            | 35   | 355877                        | 4577954 | 220                             |
| 1252 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 353500                        | 4575602 | 224                             |
| 1253 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 358320                        | 4576267 | 217                             |
| 1254 | Participating     | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 358491                        | 4575633 | 217                             |
| 1255 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 353390                        | 4555274 | 258                             |
| 1256 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 351797                        | 4578961 | 224                             |
| 1257 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 353289                        | 4577680 | 219                             |
| 1258 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 351014                        | 4569530 | 243                             |
| 1259 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 41   | 347739                        | 4570112 | 240                             |
| 1260 | Non-participating | 40                                      | 40             | 41                        | 41                        | 43            | 43   | 345979                        | 4562021 | 256                             |
| 1261 | Participating     | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 351359                        | 4558869 | 248                             |
| 1262 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 354960                        | 4551831 | 259                             |
| 1263 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 354259                        | 4574893 | 223                             |
| 1264 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 45   | 348206                        | 4565701 | 245                             |
| 1265 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 46   | 347565                        | 4550586 | 281                             |
| 1266 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 44   | 345992                        | 4545396 | 291                             |
| 1267 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 351022                        | 4557701 | 253                             |
| 1268 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 350248                        | 4578439 | 222                             |
| 1269 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 352276                        | 4567250 | 240                             |
| 1270 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347931                        | 4564830 | 248                             |
| 1271 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 350227                        | 4562388 | 245                             |
| 1272 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 354246                        | 4565729 | 233                             |
| 1273 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347644                        | 4570172 | 238                             |
| 1274 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 345485                        | 4560725 | 257                             |
| 1275 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 353268                        | 4555385 | 258                             |
| 1276 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 350555                        | 4554570 | 261                             |
| 1277 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 357398                        | 4574300 | 220                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1278 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 354143                        | 4568427 | 232                             |
| 1279 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347098                        | 4562757 | 252                             |
| 1280 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347942                        | 4565220 | 247                             |
| 1281 | Participating     | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 350116                        | 4559347 | 250                             |
| 1282 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 350262                        | 4549509 | 276                             |
| 1283 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 353762                        | 4575943 | 224                             |
| 1284 | Participating     | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 352679                        | 4553274 | 264                             |
| 1285 | Participating     | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 347633                        | 4549675 | 279                             |
| 1286 | Participating     | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 348424                        | 4549694 | 281                             |
| 1287 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 356203                        | 4576380 | 221                             |
| 1288 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 357823                        | 4577115 | 218                             |
| 1289 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 358092                        | 4577540 | 218                             |
| 1290 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 355541                        | 4572159 | 224                             |
| 1291 | Non-participating | 32                                      | 31             | 33                        | 32                        | 34            | 35   | 348515                        | 4545295 | 292                             |
| 1292 | Participating     | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347989                        | 4565118 | 247                             |
| 1293 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 348417                        | 4560564 | 251                             |
| 1294 | Participating     | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 346798                        | 4558584 | 259                             |
| 1295 | Participating     | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 350089                        | 4553966 | 264                             |
| 1296 | Participating     | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 350813                        | 4553067 | 265                             |
| 1297 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 348811                        | 4578313 | 218                             |
| 1298 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 354581                        | 4551245 | 262                             |
| 1299 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 42   | 346347                        | 4549613 | 281                             |
| 1300 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 353356                        | 4551990 | 269                             |
| 1301 | Participating     | 45                                      | 44             | 46                        | 46                        | 47            | 47   | 350250                        | 4550020 | 275                             |
| 1302 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 46   | 346513                        | 4548253 | 291                             |
| 1303 | Participating     | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 355486                        | 4571825 | 226                             |
| 1304 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 347837                        | 4573129 | 227                             |
| 1305 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 352286                        | 4576990 | 222                             |
| 1306 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 359008                        | 4575963 | 215                             |
| 1307 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 352051                        | 4565190 | 241                             |
| 1308 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 351971                        | 4569293 | 242                             |
| 1309 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 46   | 346437                        | 4567694 | 242                             |
| 1310 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 348471                        | 4556199 | 260                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1311 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 38   | 354517                        | 4551519 | 260                             |
| 1312 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 353092                        | 4577660 | 222                             |
| 1313 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 355863                        | 4572683 | 223                             |
| 1314 | Non-participating | 44                                      | 43                | 44                                 | 44                                 | 45            | 45   | 351448                        | 4574421 | 224                             |
| 1315 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 358097                        | 4574685 | 219                             |
| 1316 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 353392                        | 4563851 | 242                             |
| 1317 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352017                        | 4569146 | 241                             |
| 1318 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 42   | 345917                        | 4565508 | 249                             |
| 1319 | Non-participating | 42                                      | 41                | 43                                 | 42                                 | 44            | 46   | 345782                        | 4567136 | 244                             |
| 1320 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351737                        | 4559381 | 245                             |
| 1321 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 348422                        | 4558313 | 254                             |
| 1322 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 351887                        | 4553081 | 264                             |
| 1323 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348467                        | 4573099 | 227                             |
| 1324 | Participating     | 41                                      | 40                | 42                                 | 42                                 | 43            | 43   | 348370                        | 4566386 | 244                             |
| 1325 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 354510                        | 4566408 | 231                             |
| 1326 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 353357                        | 4555585 | 258                             |
| 1327 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 359944                        | 4578345 | 212                             |
| 1328 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 352916                        | 4577908 | 223                             |
| 1329 | Participating     | 44                                      | 44                | 44                                 | 44                                 | 44            | 44   | 352043                        | 4570445 | 236                             |
| 1330 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 352583                        | 4565914 | 239                             |
| 1331 | Participating     | 45                                      | 45                | 46                                 | 46                                 | 48            | 48   | 346827                        | 4545389 | 295                             |
| 1332 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 352478                        | 4560286 | 243                             |
| 1333 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 360184                        | 4578138 | 211                             |
| 1334 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 349875                        | 4578351 | 224                             |
| 1335 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347020                        | 4573915 | 224                             |
| 1336 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 39   | 346046                        | 4569172 | 241                             |
| 1337 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 348278                        | 4548168 | 286                             |
| 1338 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 347734                        | 4570178 | 239                             |
| 1339 | Non-participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 347578                        | 4570226 | 237                             |
| 1340 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349924                        | 4558633 | 253                             |
| 1341 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 43   | 349982                        | 4556205 | 258                             |
| 1342 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 34   | 350268                        | 4547708 | 284                             |
| 1343 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 355017                        | 4576152 | 222                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1344 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 350010                        | 4562367 | 245                             |
| 1345 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347601                        | 4570413 | 235                             |
| 1346 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 347912                        | 4564258 | 249                             |
| 1347 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347999                        | 4564656 | 249                             |
| 1348 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 348160                        | 4570227 | 240                             |
| 1349 | Participating     | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 349066                        | 4558615 | 253                             |
| 1350 | Non-participating | 44                                      | 43             | 45                        | 44                        | 46            | 46   | 347815                        | 4556316 | 261                             |
| 1351 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 348895                        | 4549403 | 277                             |
| 1352 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 350610                        | 4572677 | 227                             |
| 1353 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 357202                        | 4574311 | 221                             |
| 1354 | Participating     | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350137                        | 4564494 | 244                             |
| 1355 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 346242                        | 4560350 | 257                             |
| 1356 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 351403                        | 4554329 | 260                             |
| 1357 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 350567                        | 4572365 | 228                             |
| 1358 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 354165                        | 4577470 | 218                             |
| 1359 | Non-participating | 37                                      | 36             | 38                        | 37                        | 39            | 39   | 352015                        | 4563908 | 238                             |
| 1360 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 353587                        | 4569084 | 234                             |
| 1361 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347104                        | 4562688 | 253                             |
| 1362 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 346362                        | 4567630 | 242                             |
| 1363 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347494                        | 4570326 | 236                             |
| 1364 | Non-participating | 45                                      | 44             | 46                        | 46                        | 47            | 47   | 348982                        | 4567795 | 247                             |
| 1365 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 34   | 348860                        | 4545191 | 293                             |
| 1366 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 354611                        | 4576155 | 220                             |
| 1367 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 345485                        | 4560962 | 258                             |
| 1368 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 349531                        | 4558586 | 251                             |
| 1369 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351771                        | 4559446 | 244                             |
| 1370 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351483                        | 4559210 | 247                             |
| 1371 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 353589                        | 4572370 | 227                             |
| 1372 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 44   | 345992                        | 4545396 | 291                             |
| 1373 | Participating     | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 347290                        | 4563408 | 248                             |
| 1374 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 43   | 345885                        | 4568329 | 241                             |
| 1375 | Non-participating | 46                                      | 45             | 47                        | 47                        | 48            | 48   | 350231                        | 4550485 | 276                             |
| 1376 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 353111                        | 4555290 | 258                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1377 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 348529                        | 4556773 | 258                             |
| 1378 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 355954                        | 4577216 | 220                             |
| 1379 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 350006                        | 4565708 | 244                             |
| 1380 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 354191                        | 4553314 | 261                             |
| 1381 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 40   | 345441                        | 4550912 | 284                             |
| 1382 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350262                        | 4546657 | 293                             |
| 1383 | Non-participating | 40                                      | 39                | 40                                 | 40                                 | 42            | 42   | 357528                        | 4574500 | 221                             |
| 1384 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 358323                        | 4576107 | 217                             |
| 1385 | Non-participating | 44                                      | 43                | 44                                 | 44                                 | 46            | 46   | 350095                        | 4562633 | 245                             |
| 1386 | Participating     | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 345788                        | 4562902 | 255                             |
| 1387 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 347869                        | 4570099 | 241                             |
| 1388 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345637                        | 4560983 | 257                             |
| 1389 | Non-participating | 43                                      | 42                | 43                                 | 43                                 | 45            | 45   | 347600                        | 4555737 | 264                             |
| 1390 | Non-participating | 39                                      | 38                | 40                                 | 40                                 | 41            | 41   | 351061                        | 4554234 | 262                             |
| 1391 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 351859                        | 4578957 | 224                             |
| 1392 | Participating     | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 351473                        | 4571012 | 237                             |
| 1393 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 360744                        | 4573223 | 211                             |
| 1394 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 352318                        | 4565228 | 240                             |
| 1395 | Non-participating | 41                                      | 41                | 42                                 | 42                                 | 43            | 45   | 345808                        | 4566059 | 248                             |
| 1396 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 347556                        | 4566591 | 245                             |
| 1397 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 347855                        | 4564935 | 248                             |
| 1398 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 39   | 346597                        | 4565036 | 248                             |
| 1399 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 354006                        | 4578035 | 215                             |
| 1400 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 350415                        | 4572952 | 229                             |
| 1401 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 355990                        | 4571079 | 226                             |
| 1402 | Non-participating | 35                                      | 34                | 36                                 | 35                                 | 37            | 37   | 347808                        | 4560287 | 253                             |
| 1403 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 351506                        | 4552946 | 264                             |
| 1404 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 40   | 351906                        | 4549468 | 273                             |
| 1405 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 354270                        | 4578207 | 212                             |
| 1406 | Participating     | 45                                      | 44                | 46                                 | 46                                 | 47            | 47   | 354351                        | 4576296 | 221                             |
| 1407 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356260                        | 4576428 | 220                             |
| 1408 | Non-participating | 39                                      | 39                | 40                                 | 40                                 | 41            | 41   | 347569                        | 4569824 | 242                             |
| 1409 | Participating     | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 350123                        | 4558015 | 255                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1410 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 347726                        | 4554730 | 265                             |
| 1411 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 349873                        | 4578274 | 223                             |
| 1412 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 346676                        | 4575067 | 226                             |
| 1413 | Participating     | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 348987                        | 4563790 | 247                             |
| 1414 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 354785                        | 4566560 | 231                             |
| 1415 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 348094                        | 4570357 | 237                             |
| 1416 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 354831                        | 4551465 | 263                             |
| 1417 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 38   | 345548                        | 4562856 | 257                             |
| 1418 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 348233                        | 4573842 | 226                             |
| 1419 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 360728                        | 4577857 | 209                             |
| 1420 | Participating     | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 350027                        | 4568647 | 242                             |
| 1421 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347616                        | 4570171 | 237                             |
| 1422 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 348378                        | 4557828 | 256                             |
| 1423 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 352688                        | 4550290 | 271                             |
| 1424 | Participating     | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 352566                        | 4574894 | 225                             |
| 1425 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41         | 41   | 355568                        | 4572190 | 224                             |
| 1426 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 349996                        | 4563528 | 245                             |
| 1427 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 348240                        | 4563338 | 248                             |
| 1428 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 351562                        | 4549433 | 276                             |
| 1429 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 39   | 348034                        | 4546569 | 297                             |
| 1430 | Non-participating | 42                                      | 41             | 43                        | 42                        | 44         | 44   | 347148                        | 4545327 | 296                             |
| 1431 | Participating     | 44                                      | 43             | 45                        | 45                        | 46         | 46   | 351708                        | 4562154 | 242                             |
| 1432 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 37   | 353029                        | 4555212 | 259                             |
| 1433 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352391                        | 4576346 | 223                             |
| 1434 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43         | 43   | 347529                        | 4552120 | 277                             |
| 1435 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40         | 40   | 351829                        | 4549549 | 273                             |
| 1436 | Participating     | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 358346                        | 4574917 | 218                             |
| 1437 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352220                        | 4576349 | 223                             |
| 1438 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 353706                        | 4571799 | 229                             |
| 1439 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 347702                        | 4565289 | 248                             |
| 1440 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 36   | 345249                        | 4561438 | 259                             |
| 1441 | Participating     | 41                                      | 40             | 41                        | 41                        | 43         | 43   | 346559                        | 4554245 | 273                             |
| 1442 | Participating     | 42                                      | 42             | 43                        | 43                        | 45         | 45   | 348773                        | 4551313 | 272                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1443 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 352974                        | 4578399 | 225                             |
| 1444 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350738                        | 4569692 | 242                             |
| 1445 | Participating     | 46                                      | 45             | 47                        | 47                        | 48            | 48   | 350004                        | 4574032 | 225                             |
| 1446 | Non-participating | 42                                      | 42             | 43                        | 43                        | 44            | 44   | 349651                        | 4568420 | 244                             |
| 1447 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 34   | 350189                        | 4547374 | 287                             |
| 1448 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 38   | 348423                        | 4548045 | 287                             |
| 1449 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 353148                        | 4575587 | 225                             |
| 1450 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 355974                        | 4571123 | 227                             |
| 1451 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 346608                        | 4561617 | 254                             |
| 1452 | Participating     | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352981                        | 4551903 | 269                             |
| 1453 | Non-participating | 36                                      | 35             | 36                        | 37                        | 38            | 38   | 350155                        | 4552477 | 266                             |
| 1454 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351451                        | 4578703 | 222                             |
| 1455 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 358363                        | 4574803 | 218                             |
| 1456 | Non-participating | 44                                      | 43             | 45                        | 44                        | 46            | 46   | 354464                        | 4576157 | 220                             |
| 1457 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 347522                        | 4569765 | 243                             |
| 1458 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 347978                        | 4569873 | 243                             |
| 1459 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 349959                        | 4562006 | 245                             |
| 1460 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 351290                        | 4554155 | 262                             |
| 1461 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 359982                        | 4576414 | 212                             |
| 1462 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 352961                        | 4576162 | 223                             |
| 1463 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 43   | 351964                        | 4569430 | 240                             |
| 1464 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 33   | 350066                        | 4547569 | 286                             |
| 1465 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 350257                        | 4548357 | 280                             |
| 1466 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 40   | 346447                        | 4565283 | 248                             |
| 1467 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352215                        | 4551836 | 270                             |
| 1468 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 350232                        | 4549730 | 275                             |
| 1469 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351963                        | 4578755 | 225                             |
| 1470 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 358325                        | 4576345 | 216                             |
| 1471 | Participating     | 54                                      | 54             | 54                        | 54                        | 54            | 54   | 352098                        | 4570229 | 237                             |
| 1472 | Participating     | 43                                      | 43             | 44                        | 44                        | 45            | 45   | 351796                        | 4561416 | 243                             |
| 1473 | Non-participating | 46                                      | 45             | 47                        | 47                        | 48            | 48   | 354963                        | 4573041 | 223                             |
| 1474 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 356239                        | 4576212 | 221                             |
| 1475 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 357658                        | 4577146 | 218                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1476 | Non-participating | 36                                      | 35             | 37                        | 36                        | 38            | 38   | 349677                        | 4572620 | 230                             |
| 1477 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 352714                        | 4565528 | 238                             |
| 1478 | Participating     | 43                                      | 42             | 44                        | 44                        | 45            | 46   | 347145                        | 4549691 | 283                             |
| 1479 | Non-participating | 31                                      | 30             | 32                        | 32                        | 33            | 35   | 348732                        | 4545284 | 292                             |
| 1480 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 39   | 345513                        | 4562343 | 256                             |
| 1481 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 40   | 345336                        | 4551451 | 281                             |
| 1482 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 355563                        | 4576291 | 222                             |
| 1483 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 352961                        | 4577593 | 222                             |
| 1484 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 353535                        | 4576082 | 224                             |
| 1485 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 347517                        | 4564217 | 247                             |
| 1486 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 346029                        | 4561917 | 256                             |
| 1487 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 353381                        | 4555354 | 258                             |
| 1488 | Participating     | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 351862                        | 4556118 | 255                             |
| 1489 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 360085                        | 4578266 | 212                             |
| 1490 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 355515                        | 4571870 | 225                             |
| 1491 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 357308                        | 4574297 | 221                             |
| 1492 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 357529                        | 4574363 | 220                             |
| 1493 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 351652                        | 4562645 | 241                             |
| 1494 | Participating     | 38                                      | 38             | 39                        | 39                        | 40            | 41   | 348015                        | 4565192 | 247                             |
| 1495 | Participating     | 45                                      | 45             | 46                        | 46                        | 48            | 48   | 347920                        | 4569295 | 242                             |
| 1496 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 44   | 345809                        | 4568267 | 242                             |
| 1497 | Non-participating | 43                                      | 42             | 44                        | 44                        | 45            | 45   | 351823                        | 4554627 | 263                             |
| 1498 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 354806                        | 4551589 | 262                             |
| 1499 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 350117                        | 4558516 | 252                             |
| 1500 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 345766                        | 4558760 | 259                             |
| 1501 | Participating     | 45                                      | 44             | 45                        | 45                        | 47            | 47   | 348400                        | 4557206 | 258                             |
| 1502 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 353342                        | 4555145 | 258                             |
| 1503 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 37   | 345305                        | 4553044 | 274                             |
| 1504 | Non-participating | 41                                      | 40             | 42                        | 41                        | 43            | 43   | 347839                        | 4569856 | 242                             |
| 1505 | Non-participating | 44                                      | 44             | 45                        | 45                        | 46            | 46   | 351549                        | 4550227 | 274                             |
| 1506 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 33   | 350279                        | 4547229 | 288                             |
| 1507 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 346604                        | 4545293 | 293                             |
| 1508 | Non-participating | 37                                      | 36             | 38                        | 37                        | 39            | 39   | 350326                        | 4578397 | 222                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1509 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 349023                        | 4566495 | 244                             |
| 1510 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 350603                        | 4556169 | 256                             |
| 1511 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354523                        | 4551436 | 262                             |
| 1512 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 39   | 345249                        | 4551701 | 281                             |
| 1513 | Non-participating | 32                                      | 31             | 33                        | 33                        | 34            | 34   | 360223                        | 4572432 | 213                             |
| 1514 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 356505                        | 4574446 | 220                             |
| 1515 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 350210                        | 4562374 | 245                             |
| 1516 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 353379                        | 4555408 | 258                             |
| 1517 | Participating     | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 351907                        | 4551977 | 270                             |
| 1518 | Participating     | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 350198                        | 4550943 | 270                             |
| 1519 | Participating     | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 353361                        | 4571305 | 231                             |
| 1520 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 348062                        | 4573114 | 227                             |
| 1521 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 356496                        | 4574347 | 219                             |
| 1522 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 38   | 348378                        | 4546626 | 293                             |
| 1523 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347786                        | 4565267 | 248                             |
| 1524 | Non-participating | 40                                      | 39             | 41                        | 40                        | 42            | 42   | 347961                        | 4570074 | 241                             |
| 1525 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 351118                        | 4554067 | 261                             |
| 1526 | Participating     | 45                                      | 44             | 46                        | 46                        | 47            | 47   | 347715                        | 4553088 | 273                             |
| 1527 | Non-participating | 42                                      | 41             | 42                        | 42                        | 44            | 44   | 349201                        | 4566249 | 244                             |
| 1528 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 355650                        | 4571521 | 226                             |
| 1529 | Non-participating | 41                                      | 41             | 42                        | 42                        | 43            | 44   | 345976                        | 4545429 | 291                             |
| 1530 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 347740                        | 4562575 | 251                             |
| 1531 | Participating     | 43                                      | 42             | 44                        | 43                        | 45            | 45   | 347665                        | 4568723 | 242                             |
| 1532 | Participating     | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 347003                        | 4556299 | 264                             |
| 1533 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 355392                        | 4571998 | 226                             |
| 1534 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 350413                        | 4572970 | 229                             |
| 1535 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 353820                        | 4577911 | 216                             |
| 1536 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 357403                        | 4576028 | 220                             |
| 1537 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 349740                        | 4558644 | 252                             |
| 1538 | Participating     | 46                                      | 46             | 47                        | 47                        | 48            | 48   | 353183                        | 4572579 | 229                             |
| 1539 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 357920                        | 4574680 | 219                             |
| 1540 | Non-participating | 39                                      | 38             | 40                        | 40                        | 41            | 41   | 353237                        | 4577669 | 219                             |
| 1541 | Non-participating | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 354750                        | 4576152 | 220                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1542 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42         | 42   | 352101                        | 4569081 | 240                             |
| 1543 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 349717                        | 4569993 | 241                             |
| 1544 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 36   | 356660                        | 4572138 | 222                             |
| 1545 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 351812                        | 4563164 | 240                             |
| 1546 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 354625                        | 4567434 | 232                             |
| 1547 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 345688                        | 4561023 | 257                             |
| 1548 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41         | 42   | 347745                        | 4553886 | 263                             |
| 1549 | Participating     | 46                                      | 45             | 46                        | 46                        | 48         | 48   | 350111                        | 4550708 | 271                             |
| 1550 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41         | 41   | 346950                        | 4574335 | 223                             |
| 1551 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44         | 44   | 351766                        | 4562830 | 242                             |
| 1552 | Participating     | 45                                      | 44             | 46                        | 46                        | 47         | 47   | 347796                        | 4568881 | 243                             |
| 1553 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 357113                        | 4574303 | 221                             |
| 1554 | Participating     | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 352205                        | 4568182 | 240                             |
| 1555 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 350853                        | 4572034 | 236                             |
| 1556 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 38   | 350089                        | 4552650 | 269                             |
| 1557 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 351072                        | 4553128 | 262                             |
| 1558 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39         | 39   | 348818                        | 4573125 | 227                             |
| 1559 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 353257                        | 4577760 | 219                             |
| 1560 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 39   | 345770                        | 4569014 | 242                             |
| 1561 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 345647                        | 4560978 | 257                             |
| 1562 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42         | 42   | 352265                        | 4554891 | 260                             |
| 1563 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 35   | 350265                        | 4547744 | 284                             |
| 1564 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41         | 41   | 350683                        | 4554438 | 260                             |
| 1565 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 360351                        | 4578144 | 211                             |
| 1566 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38         | 38   | 351236                        | 4572336 | 233                             |
| 1567 | Participating     | 44                                      | 43             | 45                        | 44                        | 46         | 46   | 358259                        | 4574305 | 218                             |
| 1568 | Participating     | 43                                      | 42             | 44                        | 44                        | 45         | 45   | 352194                        | 4567903 | 238                             |
| 1569 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 347564                        | 4570235 | 236                             |
| 1570 | Participating     | 43                                      | 42             | 43                        | 43                        | 45         | 45   | 345571                        | 4555696 | 266                             |
| 1571 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39         | 39   | 355714                        | 4571570 | 225                             |
| 1572 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 356484                        | 4573462 | 224                             |
| 1573 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40         | 40   | 352895                        | 4577936 | 222                             |
| 1574 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 44   | 345179                        | 4565533 | 249                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1575 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 351460                        | 4549844 | 274                             |
| 1576 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347917                        | 4564725 | 248                             |
| 1577 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 347660                        | 4554179 | 265                             |
| 1578 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 353536                        | 4577769 | 217                             |
| 1579 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 350350                        | 4572973 | 229                             |
| 1580 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 43   | 353834                        | 4551732 | 257                             |
| 1581 | Non-participating | 32                                      | 31             | 32                        | 34                        | 34            | 34   | 354557                        | 4551203 | 260                             |
| 1582 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 38   | 348897                        | 4548979 | 279                             |
| 1583 | Non-participating | 44                                      | 44             | 45                        | 45                        | 46            | 46   | 349015                        | 4575139 | 223                             |
| 1584 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 356566                        | 4573571 | 224                             |
| 1585 | Non-participating | 43                                      | 43             | 44                        | 44                        | 45            | 46   | 347126                        | 4546276 | 294                             |
| 1586 | Non-participating | 41                                      | 40             | 41                        | 41                        | 43            | 46   | 345822                        | 4567489 | 243                             |
| 1587 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 44   | 348381                        | 4570019 | 241                             |
| 1588 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 352223                        | 4576388 | 223                             |
| 1589 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 352653                        | 4565430 | 237                             |
| 1590 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 348093                        | 4570603 | 236                             |
| 1591 | Non-participating | 44                                      | 43             | 45                        | 45                        | 46            | 46   | 351459                        | 4550161 | 273                             |
| 1592 | Non-participating | 42                                      | 41             | 43                        | 43                        | 44            | 45   | 346159                        | 4567667 | 241                             |
| 1593 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 347696                        | 4570181 | 238                             |
| 1594 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 352489                        | 4551940 | 269                             |
| 1595 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 44   | 345904                        | 4565792 | 249                             |
| 1596 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351576                        | 4578714 | 224                             |
| 1597 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 352820                        | 4565041 | 236                             |
| 1598 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 350057                        | 4559456 | 249                             |
| 1599 | Participating     | 37                                      | 36             | 38                        | 37                        | 39            | 39   | 350117                        | 4559517 | 248                             |
| 1600 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 359161                        | 4578525 | 212                             |
| 1601 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 355603                        | 4572322 | 224                             |
| 1602 | Non-participating | 45                                      | 44             | 45                        | 45                        | 47            | 47   | 354176                        | 4572221 | 227                             |
| 1603 | Participating     | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 351451                        | 4574702 | 224                             |
| 1604 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 41   | 345301                        | 4550492 | 282                             |
| 1605 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 354983                        | 4570382 | 228                             |
| 1606 | Non-participating | 41                                      | 40             | 42                        | 42                        | 43            | 43   | 352263                        | 4568399 | 240                             |
| 1607 | Non-participating | 45                                      | 45             | 46                        | 46                        | 47            | 47   | 349292                        | 4568050 | 246                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1608 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 38   | 346038                        | 4569212 | 241                             |
| 1609 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 347671                        | 4570368 | 236                             |
| 1610 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 346481                        | 4561034 | 255                             |
| 1611 | Participating     | 36                                      | 35                | 37                                 | 36                                 | 38            | 38   | 350170                        | 4553687 | 262                             |
| 1612 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 38   | 350438                        | 4578472 | 222                             |
| 1613 | Non-participating | 39                                      | 38                | 40                                 | 39                                 | 41            | 41   | 357522                        | 4574586 | 220                             |
| 1614 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 358587                        | 4576053 | 217                             |
| 1615 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 347004                        | 4575457 | 222                             |
| 1616 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 347798                        | 4570143 | 240                             |
| 1617 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 40   | 348166                        | 4570376 | 237                             |
| 1618 | Non-participating | 40                                      | 39                | 41                                 | 41                                 | 42            | 42   | 346143                        | 4562882 | 259                             |
| 1619 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 347129                        | 4562958 | 250                             |
| 1620 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 350090                        | 4562167 | 245                             |
| 1621 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350110                        | 4559140 | 250                             |
| 1622 | Non-participating | 42                                      | 41                | 43                                 | 43                                 | 44            | 44   | 353821                        | 4576206 | 224                             |
| 1623 | Participating     | 34                                      | 33                | 35                                 | 34                                 | 36            | 36   | 345586                        | 4558867 | 260                             |
| 1624 | Non-participating | 40                                      | 40                | 41                                 | 41                                 | 42            | 42   | 352066                        | 4556035 | 257                             |
| 1625 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 41   | 346637                        | 4565406 | 250                             |
| 1626 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 356176                        | 4576461 | 220                             |
| 1627 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 353593                        | 4570299 | 231                             |
| 1628 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 39            | 39   | 354094                        | 4575373 | 222                             |
| 1629 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 352365                        | 4566198 | 238                             |
| 1630 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350058                        | 4553188 | 268                             |
| 1631 | Non-participating | 42                                      | 41                | 42                                 | 42                                 | 44            | 44   | 350223                        | 4551183 | 268                             |
| 1632 | Non-participating | 34                                      | 33                | 35                                 | 34                                 | 36            | 36   | 351853                        | 4578865 | 224                             |
| 1633 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351347                        | 4578692 | 222                             |
| 1634 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 346986                        | 4573983 | 224                             |
| 1635 | Participating     | 39                                      | 38                | 40                                 | 39                                 | 41            | 41   | 353984                        | 4575723 | 222                             |
| 1636 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 349977                        | 4566054 | 244                             |
| 1637 | Non-participating | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 347547                        | 4551757 | 278                             |
| 1638 | Non-participating | 38                                      | 38                | 39                                 | 39                                 | 40            | 41   | 347364                        | 4569745 | 242                             |
| 1639 | Participating     | 41                                      | 40                | 41                                 | 41                                 | 43            | 43   | 354328                        | 4553297 | 262                             |
| 1640 | Participating     | 38                                      | 37                | 38                                 | 38                                 | 39            | 40   | 346345                        | 4552287 | 273                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1641 | Non-participating | 39                                      | 38             | 40                        | 39                        | 41            | 41   | 352125                        | 4573708 | 226                             |
| 1642 | Non-participating | 36                                      | 35             | 37                        | 36                        | 38            | 38   | 356623                        | 4573677 | 224                             |
| 1643 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 351986                        | 4569424 | 240                             |
| 1644 | Participating     | 31                                      | 30             | 31                        | 31                        | 32            | 34   | 349468                        | 4546621 | 296                             |
| 1645 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 348455                        | 4562789 | 249                             |
| 1646 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 348393                        | 4562236 | 250                             |
| 1647 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 346532                        | 4561170 | 255                             |
| 1648 | Non-participating | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 354079                        | 4576189 | 223                             |
| 1649 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 354500                        | 4551413 | 263                             |
| 1650 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 347659                        | 4570128 | 238                             |
| 1651 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 347509                        | 4569819 | 242                             |
| 1652 | Non-participating | 38                                      | 38             | 39                        | 39                        | 40            | 40   | 351122                        | 4557713 | 253                             |
| 1653 | Participating     | 46                                      | 46             | 47                        | 47                        | 48            | 48   | 350311                        | 4575995 | 224                             |
| 1654 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 41   | 347394                        | 4548574 | 286                             |
| 1655 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 37   | 348235                        | 4545325 | 289                             |
| 1656 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 43   | 347510                        | 4565937 | 246                             |
| 1657 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 350678                        | 4558472 | 254                             |
| 1658 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 37   | 347406                        | 4564037 | 248                             |
| 1659 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 351706                        | 4578667 | 224                             |
| 1660 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 352320                        | 4565234 | 240                             |
| 1661 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 345989                        | 4561988 | 256                             |
| 1662 | Participating     | 40                                      | 40             | 41                        | 41                        | 42            | 42   | 349989                        | 4561296 | 247                             |
| 1663 | Participating     | 39                                      | 38             | 40                        | 40                        | 41            | 42   | 347605                        | 4546711 | 298                             |
| 1664 | Participating     | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 360728                        | 4575977 | 208                             |
| 1665 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42            | 42   | 351953                        | 4569321 | 242                             |
| 1666 | Participating     | 44                                      | 43             | 44                        | 44                        | 46            | 46   | 351776                        | 4561467 | 243                             |
| 1667 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 348486                        | 4558724 | 255                             |
| 1668 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 348467                        | 4578804 | 218                             |
| 1669 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 351794                        | 4578841 | 224                             |
| 1670 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 354771                        | 4570239 | 229                             |
| 1671 | Non-participating | 40                                      | 39             | 41                        | 41                        | 42            | 42   | 352602                        | 4576337 | 224                             |
| 1672 | Participating     | 43                                      | 42             | 43                        | 43                        | 45            | 45   | 350083                        | 4563534 | 245                             |
| 1673 | Non-participating | 39                                      | 39             | 40                        | 40                        | 41            | 41   | 348613                        | 4555346 | 264                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1674 | Non-participating | 42                                      | 42                | 43                                 | 43                                 | 44            | 45   | 348095                        | 4569885 | 242                             |
| 1675 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 344724                        | 4561462 | 260                             |
| 1676 | Participating     | 34                                      | 33                | 35                                 | 34                                 | 36            | 36   | 353527                        | 4554977 | 259                             |
| 1677 | Participating     | 32                                      | 31                | 33                                 | 33                                 | 34            | 34   | 354192                        | 4561226 | 240                             |
| 1678 | Participating     | 29                                      | 28                | 29                                 | 29                                 | 31            | 40   | 343737                        | 4552579 | 279                             |
| 1679 | Participating     | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 351037                        | 4548393 | 280                             |
| 1680 | Participating     | 32                                      | 31                | 32                                 | 32                                 | 33            | 40   | 344614                        | 4550951 | 285                             |
| 1681 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 344535                        | 4559911 | 261                             |
| 1682 | Participating     | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355602                        | 4552498 | 264                             |
| 1683 | Participating     | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344384                        | 4559931 | 261                             |
| 1684 | Participating     | 30                                      | 29                | 30                                 | 30                                 | 31            | 35   | 343318                        | 4555839 | 270                             |
| 1685 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 351999                        | 4564869 | 240                             |
| 1686 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 344733                        | 4561456 | 260                             |
| 1687 | Participating     | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 344511                        | 4555969 | 270                             |
| 1688 | Participating     | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 345110                        | 4559813 | 260                             |
| 1689 | Participating     | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 358332                        | 4572043 | 217                             |
| 1690 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 32            | 36   | 344263                        | 4553454 | 274                             |
| 1691 | Participating     | 28                                      | 27                | 28                                 | 28                                 | 30            | 31   | 350957                        | 4546431 | 293                             |
| 1692 | Participating     | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345150                        | 4557462 | 263                             |
| 1693 | Participating     | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 344776                        | 4556490 | 268                             |
| 1694 | Participating     | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 345062                        | 4559825 | 259                             |
| 1695 | Participating     | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 352887                        | 4560425 | 242                             |
| 1696 | Participating     | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 360906                        | 4577647 | 208                             |
| 1697 | Participating     | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354181                        | 4561174 | 240                             |
| 1698 | Participating     | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 344152                        | 4554784 | 272                             |
| 1699 | Participating     | 30                                      | 29                | 30                                 | 30                                 | 31            | 37   | 343697                        | 4553874 | 275                             |
| 1700 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344523                        | 4559910 | 261                             |
| 1701 | Participating     | 31                                      | 30                | 31                                 | 31                                 | 33            | 38   | 344434                        | 4552574 | 279                             |
| 1702 | Participating     | 33                                      | 32                | 33                                 | 33                                 | 35            | 39   | 344911                        | 4551098 | 283                             |
| 1703 | Participating     | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 352908                        | 4560367 | 241                             |
| 1704 | Participating     | 28                                      | 27                | 28                                 | 28                                 | 30            | 35   | 342811                        | 4555847 | 270                             |
| 1705 | Participating     | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 358238                        | 4572047 | 217                             |
| 1706 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 40   | 344136                        | 4565266 | 249                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1707 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 351753                        | 4579100 | 224                             |
| 1708 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 345636                        | 4575233 | 221                             |
| 1709 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352364                        | 4549521 | 274                             |
| 1710 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353806                        | 4560630 | 241                             |
| 1711 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345209                        | 4569780 | 239                             |
| 1712 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 31   | 350157                        | 4545152 | 297                             |
| 1713 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 38   | 345291                        | 4569298 | 239                             |
| 1714 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 352243                        | 4557669 | 251                             |
| 1715 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354587                        | 4551013 | 262                             |
| 1716 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 46   | 345268                        | 4549367 | 284                             |
| 1717 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345619                        | 4569829 | 234                             |
| 1718 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 347084                        | 4571034 | 232                             |
| 1719 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 361049                        | 4577694 | 207                             |
| 1720 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 357867                        | 4579023 | 216                             |
| 1721 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 353118                        | 4564438 | 240                             |
| 1722 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 354779                        | 4564242 | 233                             |
| 1723 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355617                        | 4568346 | 229                             |
| 1724 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355036                        | 4551119 | 260                             |
| 1725 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 46   | 344296                        | 4565947 | 248                             |
| 1726 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 347595                        | 4579234 | 220                             |
| 1727 | Non-participating | 33                                      | 33                | 34                                 | 33                                 | 35            | 36   | 347260                        | 4571185 | 232                             |
| 1728 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347361                        | 4570291 | 236                             |
| 1729 | Non-participating | 34                                      | 33                | 34                                 | 35                                 | 36            | 36   | 351894                        | 4559282 | 244                             |
| 1730 | Non-participating | 24                                      | 23                | 25                                 | 24                                 | 26            | 44   | 341795                        | 4552640 | 282                             |
| 1731 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 361499                        | 4572822 | 210                             |
| 1732 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 344428                        | 4558275 | 263                             |
| 1733 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 41   | 345301                        | 4550350 | 283                             |
| 1734 | Non-participating | 26                                      | 25                | 26                                 | 27                                 | 27            | 29   | 349222                        | 4544192 | 286                             |
| 1735 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 350023                        | 4571624 | 236                             |
| 1736 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 37   | 345874                        | 4569486 | 240                             |
| 1737 | Non-participating | 33                                      | 32                | 34                                 | 34                                 | 35            | 39   | 345654                        | 4569099 | 241                             |
| 1738 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345532                        | 4569861 | 235                             |
| 1739 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354189                        | 4550729 | 267                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1740 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 361188                        | 4575163 | 210                             |
| 1741 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344177                        | 4566465 | 247                             |
| 1742 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 348038                        | 4578326 | 219                             |
| 1743 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 347812                        | 4579061 | 222                             |
| 1744 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353497                        | 4578792 | 223                             |
| 1745 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 346713                        | 4576620 | 221                             |
| 1746 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350253                        | 4570838 | 237                             |
| 1747 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356594                        | 4569678 | 225                             |
| 1748 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355514                        | 4568334 | 229                             |
| 1749 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 355371                        | 4551905 | 264                             |
| 1750 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344047                        | 4566507 | 247                             |
| 1751 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 44   | 344280                        | 4567110 | 245                             |
| 1752 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 32   | 348523                        | 4544023 | 287                             |
| 1753 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345814                        | 4569704 | 235                             |
| 1754 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356308                        | 4568945 | 226                             |
| 1755 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 347107                        | 4572396 | 228                             |
| 1756 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344104                        | 4565900 | 247                             |
| 1757 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 46   | 344493                        | 4567171 | 245                             |
| 1758 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 34   | 344299                        | 4561543 | 259                             |
| 1759 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345750                        | 4569503 | 238                             |
| 1760 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345379                        | 4569810 | 238                             |
| 1761 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 344908                        | 4557028 | 264                             |
| 1762 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 46   | 344237                        | 4568057 | 238                             |
| 1763 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 34   | 343869                        | 4560191 | 260                             |
| 1764 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 38   | 351115                        | 4570752 | 237                             |
| 1765 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345725                        | 4569870 | 234                             |
| 1766 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355256                        | 4551514 | 264                             |
| 1767 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 354162                        | 4550495 | 269                             |
| 1768 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 349359                        | 4545119 | 295                             |
| 1769 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353914                        | 4579031 | 214                             |
| 1770 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356109                        | 4574977 | 222                             |
| 1771 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356297                        | 4567806 | 227                             |
| 1772 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 49   | 344946                        | 4549311 | 286                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1773 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345866                        | 4570177 | 233                             |
| 1774 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355587                        | 4552253 | 266                             |
| 1775 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353170                        | 4564146 | 237                             |
| 1776 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354147                        | 4564177 | 237                             |
| 1777 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345338                        | 4569832 | 238                             |
| 1778 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354506                        | 4578465 | 212                             |
| 1779 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 349117                        | 4571054 | 236                             |
| 1780 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344182                        | 4566550 | 248                             |
| 1781 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345889                        | 4569671 | 236                             |
| 1782 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346998                        | 4570802 | 233                             |
| 1783 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 347141                        | 4570699 | 233                             |
| 1784 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 344969                        | 4557199 | 266                             |
| 1785 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354031                        | 4550011 | 270                             |
| 1786 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 357982                        | 4572082 | 219                             |
| 1787 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344336                        | 4559840 | 260                             |
| 1788 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 346949                        | 4572236 | 228                             |
| 1789 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 352997                        | 4564494 | 238                             |
| 1790 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 346824                        | 4569817 | 240                             |
| 1791 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 350883                        | 4547987 | 282                             |
| 1792 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 345650                        | 4563833 | 250                             |
| 1793 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 44   | 344096                        | 4566529 | 247                             |
| 1794 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356310                        | 4567930 | 227                             |
| 1795 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347109                        | 4569934 | 240                             |
| 1796 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 39   | 345645                        | 4569107 | 242                             |
| 1797 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 35   | 345988                        | 4570298 | 232                             |
| 1798 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344311                        | 4566632 | 247                             |
| 1799 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 351703                        | 4579299 | 221                             |
| 1800 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344610                        | 4561419 | 261                             |
| 1801 | Non-participating | 32                                      | 31                | 33                                 | 32                                 | 34            | 35   | 346950                        | 4572285 | 228                             |
| 1802 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354272                        | 4563938 | 237                             |
| 1803 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 30   | 355043                        | 4561532 | 238                             |
| 1804 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354441                        | 4550986 | 265                             |
| 1805 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354633                        | 4578972 | 208                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1806 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 350197                        | 4571798 | 234                             |
| 1807 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 34   | 343928                        | 4559308 | 262                             |
| 1808 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 30   | 347969                        | 4579562 | 220                             |
| 1809 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353211                        | 4579198 | 223                             |
| 1810 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 350563                        | 4571781 | 239                             |
| 1811 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350033                        | 4571459 | 239                             |
| 1812 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346899                        | 4570873 | 232                             |
| 1813 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353649                        | 4549783 | 267                             |
| 1814 | Non-participating | 30                                      | 29                | 31                                 | 31                                 | 32            | 34   | 347815                        | 4544052 | 291                             |
| 1815 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354354                        | 4550798 | 266                             |
| 1816 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 345819                        | 4574673 | 227                             |
| 1817 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345754                        | 4570020 | 234                             |
| 1818 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 352639                        | 4558394 | 251                             |
| 1819 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 44   | 344137                        | 4566412 | 247                             |
| 1820 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345448                        | 4569994 | 237                             |
| 1821 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345945                        | 4569671 | 236                             |
| 1822 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 32   | 349640                        | 4545118 | 297                             |
| 1823 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 346935                        | 4570425 | 236                             |
| 1824 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 346444                        | 4569616 | 241                             |
| 1825 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345607                        | 4569986 | 234                             |
| 1826 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355488                        | 4551180 | 266                             |
| 1827 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 345803                        | 4575939 | 223                             |
| 1828 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345482                        | 4569716 | 235                             |
| 1829 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 353394                        | 4556030 | 256                             |
| 1830 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 345098                        | 4554218 | 277                             |
| 1831 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 354931                        | 4551092 | 262                             |
| 1832 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 346902                        | 4575938 | 219                             |
| 1833 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 354455                        | 4578652 | 212                             |
| 1834 | Non-participating | 24                                      | 23                | 24                                 | 24                                 | 26            | 38   | 341342                        | 4554332 | 280                             |
| 1835 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344275                        | 4566685 | 247                             |
| 1836 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356313                        | 4575488 | 221                             |
| 1837 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355274                        | 4551104 | 260                             |
| 1838 | Non-participating | 27                                      | 26                | 27                                 | 28                                 | 29            | 30   | 351029                        | 4546353 | 291                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1839 | Non-participating | 28                                      | 28             | 29                        | 28                        | 30            | 32   | 349623                        | 4545227 | 297                             |
| 1840 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 358865                        | 4578603 | 213                             |
| 1841 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 349823                        | 4570383 | 238                             |
| 1842 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 359198                        | 4571240 | 215                             |
| 1843 | Non-participating | 33                                      | 33             | 34                        | 33                        | 35            | 36   | 346917                        | 4570822 | 233                             |
| 1844 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 349863                        | 4579944 | 216                             |
| 1845 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 360184                        | 4575053 | 213                             |
| 1846 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 44   | 344155                        | 4566695 | 246                             |
| 1847 | Non-participating | 29                                      | 29             | 30                        | 30                        | 31            | 33   | 344269                        | 4561512 | 260                             |
| 1848 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 354286                        | 4562440 | 239                             |
| 1849 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 361363                        | 4574982 | 210                             |
| 1850 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 351797                        | 4579022 | 224                             |
| 1851 | Non-participating | 29                                      | 28             | 30                        | 29                        | 31            | 31   | 360853                        | 4572226 | 210                             |
| 1852 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 345458                        | 4575245 | 224                             |
| 1853 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348245                        | 4570809 | 235                             |
| 1854 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 354654                        | 4550301 | 260                             |
| 1855 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354114                        | 4550371 | 269                             |
| 1856 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 36   | 345271                        | 4569933 | 239                             |
| 1857 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 46   | 344985                        | 4565583 | 249                             |
| 1858 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344210                        | 4566968 | 245                             |
| 1859 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 34   | 344660                        | 4559914 | 260                             |
| 1860 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 360797                        | 4572663 | 212                             |
| 1861 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355413                        | 4568410 | 229                             |
| 1862 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350351                        | 4571799 | 237                             |
| 1863 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 348403                        | 4570955 | 234                             |
| 1864 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 354738                        | 4564043 | 231                             |
| 1865 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 354598                        | 4560892 | 238                             |
| 1866 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 351652                        | 4579359 | 221                             |
| 1867 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354312                        | 4578981 | 212                             |
| 1868 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 358515                        | 4578692 | 215                             |
| 1869 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 31   | 361597                        | 4577501 | 205                             |
| 1870 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 33   | 344036                        | 4561629 | 258                             |
| 1871 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350314                        | 4571331 | 238                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1872 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 37   | 344796                        | 4556730 | 266                             |
| 1873 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 35   | 346510                        | 4570609 | 232                             |
| 1874 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 354158                        | 4550300 | 266                             |
| 1875 | Non-participating | 31                                      | 30             | 32                        | 32                        | 33            | 33   | 355043                        | 4550849 | 259                             |
| 1876 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 352439                        | 4549510 | 275                             |
| 1877 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 361174                        | 4577648 | 206                             |
| 1878 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 356467                        | 4570331 | 226                             |
| 1879 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 360583                        | 4574640 | 214                             |
| 1880 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 38   | 346826                        | 4569899 | 240                             |
| 1881 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 38   | 345735                        | 4569305 | 242                             |
| 1882 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 351520                        | 4548476 | 276                             |
| 1883 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344204                        | 4567043 | 245                             |
| 1884 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344177                        | 4566583 | 248                             |
| 1885 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 46   | 344326                        | 4565978 | 247                             |
| 1886 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 344333                        | 4553201 | 278                             |
| 1887 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348409                        | 4570882 | 235                             |
| 1888 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 39   | 345699                        | 4569015 | 242                             |
| 1889 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29            | 31   | 350076                        | 4545146 | 298                             |
| 1890 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 31   | 361122                        | 4572638 | 211                             |
| 1891 | Non-participating | 26                                      | 25             | 26                        | 26                        | 28            | 35   | 342070                        | 4555863 | 277                             |
| 1892 | Non-participating | 32                                      | 31             | 32                        | 33                        | 34            | 37   | 345811                        | 4569611 | 236                             |
| 1893 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354021                        | 4550272 | 269                             |
| 1894 | Non-participating | 30                                      | 29             | 30                        | 31                        | 32            | 32   | 354649                        | 4550614 | 262                             |
| 1895 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 353131                        | 4578975 | 226                             |
| 1896 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 346840                        | 4576180 | 220                             |
| 1897 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 44   | 344152                        | 4566897 | 245                             |
| 1898 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 355569                        | 4568345 | 229                             |
| 1899 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 351507                        | 4548672 | 274                             |
| 1900 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 352722                        | 4558787 | 249                             |
| 1901 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 34   | 345683                        | 4543769 | 286                             |
| 1902 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 37   | 343981                        | 4553442 | 277                             |
| 1903 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 36   | 345424                        | 4569872 | 237                             |
| 1904 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 45   | 343993                        | 4546367 | 292                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1905 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 353992                        | 4549810 | 270                             |
| 1906 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352395                        | 4549468 | 277                             |
| 1907 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 351422                        | 4548027 | 280                             |
| 1908 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 361435                        | 4572922 | 208                             |
| 1909 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 358312                        | 4578214 | 217                             |
| 1910 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 34   | 343928                        | 4559400 | 262                             |
| 1911 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345295                        | 4569683 | 238                             |
| 1912 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 37   | 346018                        | 4569683 | 236                             |
| 1913 | Non-participating | 32                                      | 31                | 33                                 | 32                                 | 34            | 35   | 346358                        | 4570589 | 231                             |
| 1914 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 347848                        | 4572162 | 230                             |
| 1915 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 37   | 344904                        | 4557277 | 266                             |
| 1916 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 347249                        | 4570892 | 232                             |
| 1917 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 360670                        | 4575138 | 212                             |
| 1918 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 351776                        | 4579101 | 224                             |
| 1919 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 346544                        | 4573255 | 225                             |
| 1920 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 350652                        | 4571978 | 232                             |
| 1921 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355774                        | 4566642 | 229                             |
| 1922 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356551                        | 4569603 | 226                             |
| 1923 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 346281                        | 4572504 | 227                             |
| 1924 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345775                        | 4569882 | 234                             |
| 1925 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345532                        | 4569741 | 235                             |
| 1926 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354505                        | 4578558 | 210                             |
| 1927 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 347488                        | 4572137 | 231                             |
| 1928 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355859                        | 4553102 | 259                             |
| 1929 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354889                        | 4550569 | 260                             |
| 1930 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354231                        | 4564925 | 238                             |
| 1931 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 360913                        | 4573214 | 209                             |
| 1932 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 29   | 361771                        | 4573075 | 211                             |
| 1933 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 34   | 345837                        | 4574510 | 226                             |
| 1934 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345389                        | 4569905 | 238                             |
| 1935 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345266                        | 4569742 | 239                             |
| 1936 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 347228                        | 4572554 | 229                             |
| 1937 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344065                        | 4566519 | 247                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 1938 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 45   | 344250                        | 4567714 | 239                             |
| 1939 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354420                        | 4555585 | 257                             |
| 1940 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 353050                        | 4564444 | 239                             |
| 1941 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354742                        | 4579079 | 209                             |
| 1942 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 46   | 344314                        | 4566557 | 247                             |
| 1943 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 349229                        | 4571113 | 236                             |
| 1944 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 38   | 345776                        | 4569454 | 240                             |
| 1945 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345708                        | 4569924 | 233                             |
| 1946 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355590                        | 4552405 | 265                             |
| 1947 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 31   | 349784                        | 4545094 | 296                             |
| 1948 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344066                        | 4566302 | 246                             |
| 1949 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 345815                        | 4573536 | 228                             |
| 1950 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 36   | 342109                        | 4555049 | 277                             |
| 1951 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 38   | 345180                        | 4569436 | 237                             |
| 1952 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 38   | 346581                        | 4569804 | 239                             |
| 1953 | Non-participating | 36                                      | 35                | 37                                 | 36                                 | 38            | 38   | 347420                        | 4570356 | 235                             |
| 1954 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 352642                        | 4558015 | 251                             |
| 1955 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 28            | 28   | 361391                        | 4571988 | 208                             |
| 1956 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 29            | 32   | 343940                        | 4561381 | 255                             |
| 1957 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354647                        | 4550168 | 260                             |
| 1958 | Non-participating | 30                                      | 29                | 31                                 | 31                                 | 32            | 46   | 344237                        | 4568156 | 238                             |
| 1959 | Non-participating | 29                                      | 28                | 30                                 | 30                                 | 31            | 33   | 344233                        | 4561509 | 260                             |
| 1960 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350273                        | 4571233 | 238                             |
| 1961 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 35   | 342317                        | 4556713 | 273                             |
| 1962 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 32   | 349536                        | 4545109 | 296                             |
| 1963 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 355500                        | 4554469 | 260                             |
| 1964 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 46   | 344310                        | 4566095 | 247                             |
| 1965 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 349384                        | 4571198 | 237                             |
| 1966 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 349432                        | 4571299 | 235                             |
| 1967 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356043                        | 4571100 | 225                             |
| 1968 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 346340                        | 4569627 | 240                             |
| 1969 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346498                        | 4570448 | 234                             |
| 1970 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 345540                        | 4558534 | 260                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 1971 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 354188                        | 4550857 | 266                             |
| 1972 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 43   | 344142                        | 4566961 | 245                             |
| 1973 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 35   | 343772                        | 4555809 | 271                             |
| 1974 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 34   | 344087                        | 4559909 | 259                             |
| 1975 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 32   | 350256                        | 4546114 | 299                             |
| 1976 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 34   | 344640                        | 4561461 | 260                             |
| 1977 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 354821                        | 4564259 | 233                             |
| 1978 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345120                        | 4563858 | 250                             |
| 1979 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347016                        | 4569924 | 240                             |
| 1980 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 352643                        | 4549456 | 276                             |
| 1981 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 353864                        | 4549991 | 267                             |
| 1982 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 350267                        | 4579529 | 217                             |
| 1983 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 345802                        | 4576104 | 224                             |
| 1984 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 34   | 343912                        | 4559223 | 262                             |
| 1985 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 350698                        | 4572003 | 233                             |
| 1986 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355630                        | 4551214 | 269                             |
| 1987 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 37   | 345952                        | 4564379 | 247                             |
| 1988 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345555                        | 4569812 | 234                             |
| 1989 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 355638                        | 4553403 | 255                             |
| 1990 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 33   | 344003                        | 4561786 | 257                             |
| 1991 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345663                        | 4569934 | 233                             |
| 1992 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 355251                        | 4551184 | 263                             |
| 1993 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 36   | 354286                        | 4551008 | 265                             |
| 1994 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 352465                        | 4548126 | 280                             |
| 1995 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344209                        | 4567114 | 245                             |
| 1996 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 351705                        | 4579177 | 223                             |
| 1997 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 358656                        | 4572047 | 216                             |
| 1998 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 38   | 346003                        | 4569252 | 241                             |
| 1999 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 345738                        | 4574944 | 224                             |
| 2000 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 34   | 344542                        | 4561417 | 261                             |
| 2001 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345748                        | 4570191 | 233                             |
| 2002 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 354898                        | 4550505 | 261                             |
| 2003 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 354027                        | 4550350 | 269                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2004 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354476                        | 4562175 | 239                             |
| 2005 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 345095                        | 4557520 | 262                             |
| 2006 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 351655                        | 4579495 | 221                             |
| 2007 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344265                        | 4566709 | 246                             |
| 2008 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 46   | 344237                        | 4568182 | 239                             |
| 2009 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 350070                        | 4571503 | 238                             |
| 2010 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 35   | 343786                        | 4556736 | 268                             |
| 2011 | Non-participating | 32                                      | 31                | 32                                 | 33                                 | 34            | 35   | 346787                        | 4570979 | 231                             |
| 2012 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 355350                        | 4551079 | 264                             |
| 2013 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350181                        | 4571620 | 238                             |
| 2014 | Non-participating | 35                                      | 34                | 36                                 | 35                                 | 37            | 38   | 344634                        | 4556139 | 269                             |
| 2015 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 46   | 343984                        | 4546445 | 292                             |
| 2016 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 352654                        | 4549501 | 276                             |
| 2017 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 34   | 351630                        | 4548001 | 280                             |
| 2018 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353333                        | 4578984 | 226                             |
| 2019 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344190                        | 4566918 | 245                             |
| 2020 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344268                        | 4566648 | 247                             |
| 2021 | Non-participating | 25                                      | 24                | 26                                 | 25                                 | 27            | 37   | 341917                        | 4554331 | 280                             |
| 2022 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356373                        | 4575638 | 220                             |
| 2023 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 39   | 345743                        | 4569172 | 242                             |
| 2024 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 33   | 361327                        | 4575887 | 207                             |
| 2025 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 37   | 344339                        | 4555502 | 271                             |
| 2026 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 353205                        | 4579443 | 223                             |
| 2027 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 28            | 47   | 342628                        | 4552611 | 284                             |
| 2028 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346971                        | 4571250 | 230                             |
| 2029 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 36   | 346379                        | 4570539 | 232                             |
| 2030 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346678                        | 4570672 | 234                             |
| 2031 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 31   | 351333                        | 4546409 | 292                             |
| 2032 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350347                        | 4571739 | 236                             |
| 2033 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 349555                        | 4571125 | 239                             |
| 2034 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 347546                        | 4576471 | 222                             |
| 2035 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354391                        | 4563913 | 234                             |
| 2036 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 361326                        | 4577622 | 206                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2037 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344185                        | 4566628 | 248                             |
| 2038 | Non-participating | 26                                      | 25             | 26                        | 26                        | 28            | 37   | 342050                        | 4554316 | 279                             |
| 2039 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 345310                        | 4558255 | 259                             |
| 2040 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 360690                        | 4574554 | 214                             |
| 2041 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 348092                        | 4572941 | 228                             |
| 2042 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29            | 47   | 342734                        | 4552603 | 283                             |
| 2043 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 354371                        | 4550493 | 267                             |
| 2044 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345869                        | 4570283 | 233                             |
| 2045 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345303                        | 4569772 | 239                             |
| 2046 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 354202                        | 4550338 | 266                             |
| 2047 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 42   | 345235                        | 4550070 | 285                             |
| 2048 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 45   | 344312                        | 4566732 | 246                             |
| 2049 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348326                        | 4570843 | 235                             |
| 2050 | Non-participating | 26                                      | 26             | 27                        | 27                        | 28            | 45   | 342824                        | 4551519 | 288                             |
| 2051 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355206                        | 4550818 | 261                             |
| 2052 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 358108                        | 4578840 | 216                             |
| 2053 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 347162                        | 4569789 | 241                             |
| 2054 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 355576                        | 4568384 | 229                             |
| 2055 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354942                        | 4551055 | 260                             |
| 2056 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 359176                        | 4571212 | 215                             |
| 2057 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 34   | 344127                        | 4558620 | 263                             |
| 2058 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 354613                        | 4550903 | 266                             |
| 2059 | Non-participating | 26                                      | 25             | 26                        | 27                        | 28            | 30   | 349245                        | 4544188 | 286                             |
| 2060 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 39   | 345739                        | 4568988 | 242                             |
| 2061 | Non-participating | 25                                      | 24             | 25                        | 25                        | 27            | 38   | 341792                        | 4554336 | 280                             |
| 2062 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 46   | 344293                        | 4566214 | 247                             |
| 2063 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 347963                        | 4579222 | 221                             |
| 2064 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 43   | 344701                        | 4565348 | 249                             |
| 2065 | Non-participating | 33                                      | 33             | 34                        | 33                        | 35            | 35   | 347729                        | 4572067 | 230                             |
| 2066 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 344991                        | 4557770 | 262                             |
| 2067 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 46   | 344635                        | 4567039 | 246                             |
| 2068 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 352161                        | 4559274 | 247                             |
| 2069 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 353938                        | 4550702 | 268                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2070 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 361332                        | 4572872 | 211                             |
| 2071 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344309                        | 4566591 | 247                             |
| 2072 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346420                        | 4573132 | 227                             |
| 2073 | Non-participating | 25                                      | 25                | 26                                 | 25                                 | 27            | 37   | 341985                        | 4554307 | 279                             |
| 2074 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353320                        | 4560466 | 242                             |
| 2075 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354365                        | 4551085 | 264                             |
| 2076 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 37   | 343914                        | 4553457 | 277                             |
| 2077 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 39   | 345696                        | 4569178 | 242                             |
| 2078 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345447                        | 4569872 | 237                             |
| 2079 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345548                        | 4570051 | 236                             |
| 2080 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353907                        | 4549874 | 270                             |
| 2081 | Non-participating | 30                                      | 30                | 30                                 | 31                                 | 32            | 32   | 354964                        | 4550827 | 260                             |
| 2082 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 355066                        | 4563622 | 235                             |
| 2083 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344439                        | 4561568 | 260                             |
| 2084 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345408                        | 4569937 | 237                             |
| 2085 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356538                        | 4569647 | 226                             |
| 2086 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354470                        | 4578504 | 211                             |
| 2087 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344201                        | 4566780 | 247                             |
| 2088 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 35   | 342045                        | 4555921 | 276                             |
| 2089 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345496                        | 4569921 | 236                             |
| 2090 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 351490                        | 4564965 | 240                             |
| 2091 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 37   | 346433                        | 4569977 | 236                             |
| 2092 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 35   | 354206                        | 4550624 | 268                             |
| 2093 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 351575                        | 4548699 | 276                             |
| 2094 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 34   | 348518                        | 4544585 | 293                             |
| 2095 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 34   | 343575                        | 4559849 | 260                             |
| 2096 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345262                        | 4569755 | 239                             |
| 2097 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346916                        | 4570807 | 233                             |
| 2098 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 352099                        | 4557776 | 251                             |
| 2099 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 46   | 345272                        | 4549388 | 285                             |
| 2100 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 353722                        | 4579052 | 216                             |
| 2101 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345565                        | 4569772 | 234                             |
| 2102 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 350946                        | 4548037 | 281                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2103 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 346869                        | 4569936 | 240                             |
| 2104 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350019                        | 4570612 | 238                             |
| 2105 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 345749                        | 4573849 | 227                             |
| 2106 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 36   | 342111                        | 4555062 | 277                             |
| 2107 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347390                        | 4570352 | 235                             |
| 2108 | Non-participating | 33                                      | 33                | 34                                 | 33                                 | 35            | 35   | 347267                        | 4572622 | 229                             |
| 2109 | Non-participating | 33                                      | 32                | 34                                 | 34                                 | 35            | 42   | 345337                        | 4568688 | 240                             |
| 2110 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 38   | 345164                        | 4569283 | 238                             |
| 2111 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345811                        | 4570089 | 234                             |
| 2112 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355790                        | 4551811 | 267                             |
| 2113 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344212                        | 4567185 | 245                             |
| 2114 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 31   | 349785                        | 4545097 | 296                             |
| 2115 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 44   | 344112                        | 4566316 | 246                             |
| 2116 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354032                        | 4564040 | 237                             |
| 2117 | Non-participating | 32                                      | 31                | 33                                 | 32                                 | 34            | 46   | 344343                        | 4566518 | 248                             |
| 2118 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350306                        | 4571420 | 239                             |
| 2119 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 49   | 344466                        | 4547863 | 288                             |
| 2120 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 351653                        | 4580074 | 217                             |
| 2121 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 344110                        | 4554912 | 271                             |
| 2122 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350275                        | 4571281 | 238                             |
| 2123 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 357937                        | 4572077 | 220                             |
| 2124 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 35   | 342297                        | 4556716 | 273                             |
| 2125 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345116                        | 4563862 | 250                             |
| 2126 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 353458                        | 4555854 | 257                             |
| 2127 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354594                        | 4550185 | 259                             |
| 2128 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 28   | 361252                        | 4571955 | 212                             |
| 2129 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 349337                        | 4571165 | 237                             |
| 2130 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 350114                        | 4571598 | 238                             |
| 2131 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 37   | 345405                        | 4569749 | 237                             |
| 2132 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346529                        | 4570454 | 234                             |
| 2133 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 40   | 344055                        | 4550950 | 283                             |
| 2134 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 32   | 349657                        | 4545108 | 297                             |
| 2135 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 356416                        | 4570423 | 226                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2136 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344197                        | 4566963 | 245                             |
| 2137 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 34   | 344690                        | 4559906 | 260                             |
| 2138 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 349527                        | 4571260 | 239                             |
| 2139 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345267                        | 4569862 | 239                             |
| 2140 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355488                        | 4551372 | 265                             |
| 2141 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 31   | 350084                        | 4545214 | 297                             |
| 2142 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345740                        | 4569970 | 233                             |
| 2143 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 353716                        | 4549405 | 272                             |
| 2144 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354943                        | 4550722 | 261                             |
| 2145 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 347952                        | 4579766 | 221                             |
| 2146 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 350589                        | 4579309 | 220                             |
| 2147 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 360140                        | 4575179 | 213                             |
| 2148 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 37   | 345928                        | 4564028 | 249                             |
| 2149 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355918                        | 4566960 | 228                             |
| 2150 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 38   | 345990                        | 4569207 | 242                             |
| 2151 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345549                        | 4569776 | 234                             |
| 2152 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355250                        | 4551141 | 262                             |
| 2153 | Non-participating | 24                                      | 23                | 24                                 | 24                                 | 26            | 38   | 341433                        | 4554262 | 280                             |
| 2154 | Non-participating | 29                                      | 29                | 30                                 | 29                                 | 31            | 31   | 361472                        | 4573739 | 213                             |
| 2155 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 347490                        | 4579314 | 221                             |
| 2156 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344206                        | 4567080 | 245                             |
| 2157 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 346341                        | 4569643 | 240                             |
| 2158 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 355084                        | 4568404 | 231                             |
| 2159 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 355080                        | 4551446 | 259                             |
| 2160 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354319                        | 4550922 | 261                             |
| 2161 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 353090                        | 4559228 | 244                             |
| 2162 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 352587                        | 4549460 | 277                             |
| 2163 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 351704                        | 4579233 | 221                             |
| 2164 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344068                        | 4566387 | 247                             |
| 2165 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 45   | 344425                        | 4567159 | 245                             |
| 2166 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 33   | 344262                        | 4561536 | 259                             |
| 2167 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350265                        | 4571772 | 236                             |
| 2168 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 35   | 346619                        | 4573185 | 226                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2169 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345642                        | 4569947 | 233                             |
| 2170 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 352543                        | 4548897 | 275                             |
| 2171 | Non-participating | 36                                      | 35                | 37                                 | 36                                 | 38            | 39   | 346995                        | 4569842 | 240                             |
| 2172 | Non-participating | 36                                      | 35                | 37                                 | 36                                 | 38            | 39   | 347050                        | 4569926 | 240                             |
| 2173 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 351642                        | 4579461 | 221                             |
| 2174 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 43   | 344141                        | 4566930 | 245                             |
| 2175 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 51   | 345217                        | 4547164 | 292                             |
| 2176 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 360889                        | 4577789 | 208                             |
| 2177 | Non-participating | 30                                      | 29                | 30                                 | 31                                 | 32            | 32   | 354609                        | 4564125 | 234                             |
| 2178 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 35   | 343763                        | 4556168 | 270                             |
| 2179 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 38   | 345599                        | 4569244 | 242                             |
| 2180 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346782                        | 4570708 | 234                             |
| 2181 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 351527                        | 4548005 | 280                             |
| 2182 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 346843                        | 4570934 | 232                             |
| 2183 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355684                        | 4578238 | 218                             |
| 2184 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 31   | 361454                        | 4577546 | 206                             |
| 2185 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344190                        | 4566657 | 247                             |
| 2186 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 353075                        | 4578938 | 226                             |
| 2187 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345771                        | 4569877 | 234                             |
| 2188 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354457                        | 4550551 | 266                             |
| 2189 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 361259                        | 4577619 | 206                             |
| 2190 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 352483                        | 4578830 | 228                             |
| 2191 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346446                        | 4570563 | 232                             |
| 2192 | Non-participating | 25                                      | 24                | 26                                 | 25                                 | 27            | 37   | 341942                        | 4554320 | 280                             |
| 2193 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 351521                        | 4548218 | 279                             |
| 2194 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 347643                        | 4576682 | 220                             |
| 2195 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 45   | 344224                        | 4566162 | 247                             |
| 2196 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 347305                        | 4576617 | 219                             |
| 2197 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355559                        | 4553811 | 255                             |
| 2198 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350351                        | 4546463 | 295                             |
| 2199 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 31   | 361498                        | 4577524 | 206                             |
| 2200 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 354349                        | 4578345 | 212                             |
| 2201 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344203                        | 4566993 | 245                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2202 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 33   | 344088                        | 4561448 | 258                             |
| 2203 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 347196                        | 4571148 | 232                             |
| 2204 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 347229                        | 4578381 | 223                             |
| 2205 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 345574                        | 4575241 | 221                             |
| 2206 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 354927                        | 4563701 | 235                             |
| 2207 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 43   | 344568                        | 4546178 | 289                             |
| 2208 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 348775                        | 4571046 | 235                             |
| 2209 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 353737                        | 4560610 | 241                             |
| 2210 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 33   | 345580                        | 4573974 | 226                             |
| 2211 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 48   | 344635                        | 4547887 | 289                             |
| 2212 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354180                        | 4564132 | 238                             |
| 2213 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 347413                        | 4570326 | 236                             |
| 2214 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 38   | 345492                        | 4569326 | 240                             |
| 2215 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 36   | 345815                        | 4569897 | 234                             |
| 2216 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 347117                        | 4571276 | 232                             |
| 2217 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 359635                        | 4571867 | 213                             |
| 2218 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344098                        | 4566489 | 247                             |
| 2219 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 344821                        | 4557242 | 265                             |
| 2220 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 350376                        | 4570491 | 238                             |
| 2221 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345559                        | 4569869 | 234                             |
| 2222 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 361006                        | 4572679 | 212                             |
| 2223 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 35   | 344344                        | 4557484 | 266                             |
| 2224 | Non-participating | 29                                      | 28             | 29                        | 29                        | 30            | 34   | 343820                        | 4559455 | 262                             |
| 2225 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 353115                        | 4564439 | 240                             |
| 2226 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 33   | 348432                        | 4544285 | 291                             |
| 2227 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344112                        | 4566198 | 246                             |
| 2228 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 352866                        | 4549498 | 273                             |
| 2229 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 358239                        | 4578320 | 218                             |
| 2230 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 36   | 360362                        | 4574860 | 214                             |
| 2231 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 31   | 347677                        | 4579156 | 221                             |
| 2232 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 353613                        | 4579053 | 220                             |
| 2233 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30            | 31   | 350580                        | 4546313 | 296                             |
| 2234 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 37   | 345886                        | 4569523 | 240                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2235 | Non-participating | 33                                      | 32                | 33                                 | 34                                 | 35            | 35   | 354400                        | 4551111 | 263                             |
| 2236 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353907                        | 4554950 | 260                             |
| 2237 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354138                        | 4550731 | 267                             |
| 2238 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 361687                        | 4573218 | 212                             |
| 2239 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346691                        | 4570707 | 234                             |
| 2240 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355009                        | 4564616 | 234                             |
| 2241 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 351589                        | 4548601 | 276                             |
| 2242 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355542                        | 4568294 | 229                             |
| 2243 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 45   | 344465                        | 4567160 | 245                             |
| 2244 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 43   | 344134                        | 4567052 | 245                             |
| 2245 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354386                        | 4555558 | 257                             |
| 2246 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 347778                        | 4579233 | 221                             |
| 2247 | Non-participating | 25                                      | 25                | 26                                 | 26                                 | 27            | 36   | 342105                        | 4554991 | 277                             |
| 2248 | Non-participating | 25                                      | 25                | 26                                 | 26                                 | 27            | 35   | 342227                        | 4556619 | 274                             |
| 2249 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345676                        | 4569853 | 233                             |
| 2250 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 347150                        | 4572444 | 228                             |
| 2251 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345847                        | 4570120 | 233                             |
| 2252 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 346979                        | 4569920 | 240                             |
| 2253 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345414                        | 4569814 | 237                             |
| 2254 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 32   | 348373                        | 4544084 | 288                             |
| 2255 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345762                        | 4569505 | 238                             |
| 2256 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354234                        | 4550412 | 269                             |
| 2257 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 32   | 348526                        | 4544024 | 287                             |
| 2258 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344175                        | 4566436 | 247                             |
| 2259 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 34   | 343833                        | 4560207 | 260                             |
| 2260 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 346602                        | 4573212 | 225                             |
| 2261 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 354221                        | 4565274 | 235                             |
| 2262 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 348942                        | 4571103 | 235                             |
| 2263 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 344967                        | 4557272 | 266                             |
| 2264 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 42   | 345218                        | 4550029 | 285                             |
| 2265 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346437                        | 4573140 | 227                             |
| 2266 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345591                        | 4569914 | 233                             |
| 2267 | Non-participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 36   | 346378                        | 4570120 | 234                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2268 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 35   | 344987                        | 4562731 | 256                             |
| 2269 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353169                        | 4564151 | 236                             |
| 2270 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354598                        | 4564022 | 235                             |
| 2271 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344340                        | 4561572 | 260                             |
| 2272 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345250                        | 4569707 | 239                             |
| 2273 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345350                        | 4569851 | 238                             |
| 2274 | Non-participating | 27                                      | 26                | 27                                 | 29                                 | 29            | 29   | 354343                        | 4550292 | 259                             |
| 2275 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 348044                        | 4579138 | 220                             |
| 2276 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353958                        | 4579065 | 214                             |
| 2277 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 343956                        | 4560379 | 260                             |
| 2278 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350504                        | 4571667 | 239                             |
| 2279 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 35   | 343767                        | 4556372 | 270                             |
| 2280 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 350928                        | 4548075 | 281                             |
| 2281 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354281                        | 4550465 | 269                             |
| 2282 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355762                        | 4578443 | 217                             |
| 2283 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344073                        | 4566295 | 246                             |
| 2284 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355470                        | 4551281 | 263                             |
| 2285 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 48   | 344656                        | 4549463 | 288                             |
| 2286 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 353999                        | 4564217 | 234                             |
| 2287 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345493                        | 4570070 | 236                             |
| 2288 | Non-participating | 30                                      | 30                | 31                                 | 30                                 | 32            | 32   | 356352                        | 4567805 | 226                             |
| 2289 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 347014                        | 4570786 | 233                             |
| 2290 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354660                        | 4550677 | 262                             |
| 2291 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 351517                        | 4548352 | 277                             |
| 2292 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 350663                        | 4579332 | 220                             |
| 2293 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353233                        | 4579252 | 222                             |
| 2294 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 345418                        | 4574569 | 225                             |
| 2295 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 37   | 342094                        | 4554314 | 279                             |
| 2296 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346608                        | 4570636 | 234                             |
| 2297 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 35   | 346879                        | 4572234 | 228                             |
| 2298 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354201                        | 4564011 | 237                             |
| 2299 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345400                        | 4569707 | 237                             |
| 2300 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 349991                        | 4571677 | 235                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2301 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 347000                        | 4573166 | 226                             |
| 2302 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 39   | 347137                        | 4569965 | 239                             |
| 2303 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 352455                        | 4549457 | 278                             |
| 2304 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344115                        | 4566638 | 246                             |
| 2305 | Non-participating | 24                                      | 23             | 24                        | 24                        | 26            | 43   | 342026                        | 4552774 | 281                             |
| 2306 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355488                        | 4568351 | 229                             |
| 2307 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 360989                        | 4574333 | 214                             |
| 2308 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 348048                        | 4576437 | 220                             |
| 2309 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354588                        | 4578901 | 209                             |
| 2310 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 38   | 344605                        | 4556035 | 269                             |
| 2311 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 350225                        | 4571809 | 234                             |
| 2312 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345356                        | 4569769 | 238                             |
| 2313 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 354789                        | 4561814 | 239                             |
| 2314 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 354295                        | 4554649 | 261                             |
| 2315 | Non-participating | 32                                      | 31             | 33                        | 32                        | 34            | 43   | 344706                        | 4565359 | 249                             |
| 2316 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 46   | 344234                        | 4568079 | 238                             |
| 2317 | Non-participating | 29                                      | 29             | 30                        | 30                        | 31            | 34   | 343375                        | 4556630 | 271                             |
| 2318 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 36   | 345465                        | 4570024 | 237                             |
| 2319 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 355071                        | 4551553 | 257                             |
| 2320 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 36   | 345607                        | 4563887 | 249                             |
| 2321 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 40   | 344171                        | 4565230 | 249                             |
| 2322 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 46   | 344493                        | 4567157 | 245                             |
| 2323 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 33   | 343955                        | 4560355 | 260                             |
| 2324 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 345808                        | 4575792 | 223                             |
| 2325 | Non-participating | 26                                      | 26             | 27                        | 27                        | 28            | 46   | 342653                        | 4552674 | 284                             |
| 2326 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 36   | 345756                        | 4570049 | 234                             |
| 2327 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 36   | 345720                        | 4569901 | 233                             |
| 2328 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 358234                        | 4578790 | 216                             |
| 2329 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 45   | 344180                        | 4566370 | 246                             |
| 2330 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 351812                        | 4579099 | 224                             |
| 2331 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 34   | 344481                        | 4561497 | 260                             |
| 2332 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355461                        | 4568343 | 229                             |
| 2333 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 355583                        | 4553688 | 259                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2334 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355310                        | 4551282 | 260                             |
| 2335 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347093                        | 4570435 | 236                             |
| 2336 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 39   | 345703                        | 4569103 | 241                             |
| 2337 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 37   | 346465                        | 4569636 | 241                             |
| 2338 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354658                        | 4578708 | 211                             |
| 2339 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 34   | 343907                        | 4559211 | 262                             |
| 2340 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 36   | 346309                        | 4570480 | 232                             |
| 2341 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 358395                        | 4578741 | 215                             |
| 2342 | Non-participating | 27                                      | 27                | 28                                 | 28                                 | 29            | 29   | 360959                        | 4571639 | 213                             |
| 2343 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 344125                        | 4561675 | 259                             |
| 2344 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345464                        | 4569704 | 235                             |
| 2345 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 350365                        | 4570283 | 239                             |
| 2346 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 354240                        | 4551065 | 264                             |
| 2347 | Non-participating | 30                                      | 29                | 30                                 | 31                                 | 32            | 46   | 344236                        | 4567961 | 238                             |
| 2348 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354027                        | 4549909 | 271                             |
| 2349 | Non-participating | 32                                      | 31                | 33                                 | 33                                 | 34            | 34   | 354057                        | 4550268 | 269                             |
| 2350 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355318                        | 4551087 | 263                             |
| 2351 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 346997                        | 4576622 | 221                             |
| 2352 | Non-participating | 27                                      | 27                | 29                                 | 29                                 | 29            | 29   | 360809                        | 4572374 | 197                             |
| 2353 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 348212                        | 4570805 | 235                             |
| 2354 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354252                        | 4560722 | 238                             |
| 2355 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 351722                        | 4579375 | 221                             |
| 2356 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 46   | 344259                        | 4566142 | 247                             |
| 2357 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 355059                        | 4563002 | 236                             |
| 2358 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 43   | 343233                        | 4552576 | 282                             |
| 2359 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 351798                        | 4579047 | 224                             |
| 2360 | Non-participating | 29                                      | 29                | 30                                 | 29                                 | 31            | 31   | 349850                        | 4580087 | 216                             |
| 2361 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354390                        | 4578908 | 211                             |
| 2362 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 345246                        | 4575277 | 224                             |
| 2363 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 345735                        | 4575573 | 222                             |
| 2364 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 35   | 344889                        | 4561357 | 260                             |
| 2365 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344567                        | 4561409 | 261                             |
| 2366 | Non-participating | 31                                      | 30                | 32                                 | 31                                 | 33            | 33   | 355160                        | 4550846 | 260                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2367 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 361633                        | 4577488 | 205                             |
| 2368 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350147                        | 4571386 | 239                             |
| 2369 | Non-participating | 25                                      | 24                | 25                                 | 25                                 | 26            | 47   | 342383                        | 4552609 | 284                             |
| 2370 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 344368                        | 4553265 | 277                             |
| 2371 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350368                        | 4571817 | 238                             |
| 2372 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 38   | 345681                        | 4569269 | 242                             |
| 2373 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354431                        | 4564037 | 236                             |
| 2374 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 38   | 345401                        | 4569368 | 239                             |
| 2375 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 361127                        | 4577668 | 207                             |
| 2376 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 359412                        | 4571505 | 214                             |
| 2377 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 29            | 33   | 343934                        | 4561327 | 255                             |
| 2378 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 356543                        | 4570347 | 225                             |
| 2379 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354823                        | 4563800 | 235                             |
| 2380 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 39   | 345709                        | 4568974 | 242                             |
| 2381 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 38   | 345713                        | 4569322 | 241                             |
| 2382 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 353655                        | 4554967 | 258                             |
| 2383 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353488                        | 4555498 | 257                             |
| 2384 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344195                        | 4566891 | 245                             |
| 2385 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354782                        | 4579155 | 208                             |
| 2386 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 35   | 347010                        | 4571278 | 230                             |
| 2387 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354079                        | 4563944 | 234                             |
| 2388 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347344                        | 4570260 | 236                             |
| 2389 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345808                        | 4569951 | 234                             |
| 2390 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 344999                        | 4557254 | 267                             |
| 2391 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344181                        | 4566494 | 248                             |
| 2392 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 350005                        | 4570555 | 238                             |
| 2393 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 38   | 346824                        | 4569951 | 239                             |
| 2394 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 358605                        | 4578673 | 214                             |
| 2395 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 35   | 343782                        | 4556415 | 269                             |
| 2396 | Non-participating | 29                                      | 28                | 30                                 | 30                                 | 31            | 31   | 354501                        | 4550558 | 264                             |
| 2397 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 33   | 348431                        | 4544291 | 291                             |
| 2398 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 354790                        | 4560679 | 239                             |
| 2399 | Non-participating | 31                                      | 31                | 32                                 | 31                                 | 33            | 37   | 345387                        | 4569697 | 237                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2400 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 37   | 345808                        | 4569641 | 235                             |
| 2401 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 355629                        | 4578685 | 216                             |
| 2402 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344126                        | 4566586 | 247                             |
| 2403 | Non-participating | 30                                      | 29             | 31                        | 30                        | 32            | 34   | 344499                        | 4561562 | 260                             |
| 2404 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354106                        | 4550286 | 268                             |
| 2405 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 45   | 344312                        | 4566688 | 247                             |
| 2406 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344187                        | 4566722 | 247                             |
| 2407 | Non-participating | 35                                      | 35             | 35                        | 35                        | 37            | 37   | 350205                        | 4571010 | 238                             |
| 2408 | Non-participating | 27                                      | 26             | 27                        | 28                        | 29            | 29   | 361531                        | 4572930 | 207                             |
| 2409 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 358249                        | 4578240 | 218                             |
| 2410 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 35   | 346488                        | 4570647 | 232                             |
| 2411 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 347837                        | 4572124 | 230                             |
| 2412 | Non-participating | 26                                      | 26             | 27                        | 27                        | 28            | 28   | 355939                        | 4553202 | 256                             |
| 2413 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 350620                        | 4571959 | 232                             |
| 2414 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345362                        | 4569749 | 238                             |
| 2415 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 34   | 346360                        | 4572631 | 227                             |
| 2416 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 41   | 345054                        | 4568715 | 241                             |
| 2417 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355652                        | 4578957 | 216                             |
| 2418 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 346543                        | 4573217 | 225                             |
| 2419 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 356371                        | 4575163 | 221                             |
| 2420 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 37   | 344895                        | 4557278 | 266                             |
| 2421 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345625                        | 4569844 | 233                             |
| 2422 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 347244                        | 4570987 | 232                             |
| 2423 | Non-participating | 27                                      | 27             | 28                        | 27                        | 29            | 37   | 342796                        | 4554288 | 278                             |
| 2424 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 34   | 350402                        | 4547520 | 286                             |
| 2425 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344193                        | 4566767 | 247                             |
| 2426 | Non-participating | 32                                      | 31             | 32                        | 33                        | 34            | 34   | 353551                        | 4579052 | 221                             |
| 2427 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345575                        | 4569924 | 233                             |
| 2428 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 354910                        | 4550634 | 261                             |
| 2429 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29            | 30   | 350327                        | 4545140 | 296                             |
| 2430 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 45   | 344222                        | 4567716 | 239                             |
| 2431 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 34   | 343777                        | 4557408 | 265                             |
| 2432 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 349111                        | 4571153 | 234                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2433 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345374                        | 4569876 | 238                             |
| 2434 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 36   | 347012                        | 4570874 | 233                             |
| 2435 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 354232                        | 4550127 | 265                             |
| 2436 | Non-participating | 31                                      | 30                | 31                                 | 32                                 | 32            | 32   | 354644                        | 4550784 | 263                             |
| 2437 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 345821                        | 4573502 | 228                             |
| 2438 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350452                        | 4571571 | 238                             |
| 2439 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 346550                        | 4569852 | 240                             |
| 2440 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354287                        | 4550534 | 269                             |
| 2441 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 354354                        | 4563897 | 233                             |
| 2442 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 344659                        | 4561470 | 260                             |
| 2443 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 35   | 344981                        | 4562732 | 255                             |
| 2444 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 356549                        | 4569427 | 227                             |
| 2445 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355343                        | 4551285 | 260                             |
| 2446 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354043                        | 4579108 | 213                             |
| 2447 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354169                        | 4564304 | 237                             |
| 2448 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 34   | 347586                        | 4544070 | 290                             |
| 2449 | Non-participating | 35                                      | 35                | 36                                 | 35                                 | 37            | 37   | 349191                        | 4571097 | 236                             |
| 2450 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 42   | 342766                        | 4550995 | 289                             |
| 2451 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354163                        | 4563942 | 235                             |
| 2452 | Non-participating | 36                                      | 35                | 37                                 | 37                                 | 38            | 38   | 347418                        | 4570343 | 235                             |
| 2453 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345255                        | 4569717 | 239                             |
| 2454 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 38   | 345418                        | 4569438 | 237                             |
| 2455 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 38   | 345749                        | 4569459 | 239                             |
| 2456 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355561                        | 4553586 | 262                             |
| 2457 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355271                        | 4551257 | 261                             |
| 2458 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 45   | 344250                        | 4566096 | 247                             |
| 2459 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 45   | 344135                        | 4567484 | 237                             |
| 2460 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 347961                        | 4576579 | 221                             |
| 2461 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355185                        | 4550830 | 261                             |
| 2462 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 45   | 344249                        | 4566211 | 247                             |
| 2463 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 346968                        | 4573171 | 226                             |
| 2464 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 344179                        | 4562237 | 255                             |
| 2465 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355623                        | 4551325 | 269                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2466 | Non-participating | 29                                      | 28             | 29                        | 29                        | 30            | 30   | 347633                        | 4579297 | 221                             |
| 2467 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 34   | 344442                        | 4561505 | 260                             |
| 2468 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 360854                        | 4574330 | 214                             |
| 2469 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 37   | 344645                        | 4552644 | 278                             |
| 2470 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 344482                        | 4555449 | 270                             |
| 2471 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350788                        | 4569696 | 242                             |
| 2472 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 355860                        | 4568212 | 228                             |
| 2473 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345263                        | 4569809 | 239                             |
| 2474 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 345454                        | 4558531 | 260                             |
| 2475 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 356145                        | 4570802 | 227                             |
| 2476 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 356328                        | 4567825 | 227                             |
| 2477 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 49   | 344955                        | 4549319 | 285                             |
| 2478 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 349862                        | 4579913 | 216                             |
| 2479 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 45   | 344868                        | 4565460 | 249                             |
| 2480 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350816                        | 4572011 | 236                             |
| 2481 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 36   | 346327                        | 4570448 | 233                             |
| 2482 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 37   | 345954                        | 4564382 | 247                             |
| 2483 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345357                        | 4569780 | 238                             |
| 2484 | Non-participating | 30                                      | 29             | 31                        | 31                        | 32            | 46   | 344237                        | 4568117 | 238                             |
| 2485 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 34   | 343300                        | 4556693 | 271                             |
| 2486 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 34   | 343943                        | 4559364 | 262                             |
| 2487 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 33   | 343987                        | 4561120 | 255                             |
| 2488 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 355097                        | 4551556 | 257                             |
| 2489 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 356340                        | 4567019 | 226                             |
| 2490 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 40   | 344173                        | 4565236 | 249                             |
| 2491 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 44   | 344329                        | 4567115 | 245                             |
| 2492 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 350117                        | 4571715 | 237                             |
| 2493 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 345802                        | 4576033 | 223                             |
| 2494 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 39   | 345749                        | 4569143 | 242                             |
| 2495 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 346992                        | 4569923 | 240                             |
| 2496 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 358147                        | 4578796 | 216                             |
| 2497 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 351710                        | 4579119 | 224                             |
| 2498 | Non-participating | 34                                      | 33             | 35                        | 34                        | 36            | 38   | 346090                        | 4569246 | 241                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2499 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355481                        | 4568339 | 229                             |
| 2500 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 352932                        | 4557576 | 249                             |
| 2501 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 46   | 344187                        | 4568266 | 241                             |
| 2502 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 37   | 345539                        | 4569748 | 235                             |
| 2503 | Non-participating | 27                                      | 27             | 28                        | 27                        | 29            | 31   | 350167                        | 4545353 | 297                             |
| 2504 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 354272                        | 4550177 | 264                             |
| 2505 | Non-participating | 27                                      | 26             | 27                        | 28                        | 29            | 29   | 354555                        | 4550552 | 262                             |
| 2506 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 350123                        | 4571668 | 237                             |
| 2507 | Non-participating | 32                                      | 31             | 32                        | 33                        | 34            | 35   | 346765                        | 4570989 | 230                             |
| 2508 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 36   | 346325                        | 4570499 | 232                             |
| 2509 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 353953                        | 4549933 | 271                             |
| 2510 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 30   | 354651                        | 4550585 | 260                             |
| 2511 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 358539                        | 4578682 | 215                             |
| 2512 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 347042                        | 4576632 | 221                             |
| 2513 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 345750                        | 4575820 | 224                             |
| 2514 | Non-participating | 30                                      | 29             | 30                        | 31                        | 32            | 46   | 344236                        | 4567992 | 237                             |
| 2515 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 350060                        | 4571502 | 238                             |
| 2516 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348155                        | 4570784 | 235                             |
| 2517 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355431                        | 4551032 | 262                             |
| 2518 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 354606                        | 4578717 | 210                             |
| 2519 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 345812                        | 4574841 | 224                             |
| 2520 | Non-participating | 29                                      | 29             | 30                        | 30                        | 31            | 34   | 344129                        | 4559890 | 259                             |
| 2521 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 34   | 344427                        | 4561558 | 260                             |
| 2522 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354261                        | 4561570 | 240                             |
| 2523 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 353408                        | 4578924 | 225                             |
| 2524 | Non-participating | 32                                      | 31             | 33                        | 32                        | 34            | 34   | 354452                        | 4578908 | 211                             |
| 2525 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350408                        | 4571815 | 237                             |
| 2526 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 38   | 345741                        | 4569207 | 242                             |
| 2527 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 38   | 345654                        | 4569219 | 242                             |
| 2528 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355530                        | 4554145 | 256                             |
| 2529 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 361672                        | 4575824 | 206                             |
| 2530 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 351659                        | 4579728 | 219                             |
| 2531 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 351518                        | 4548498 | 275                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2532 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 33   | 345723                        | 4575494 | 222                             |
| 2533 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 35   | 344867                        | 4561358 | 260                             |
| 2534 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 33   | 344121                        | 4561522 | 259                             |
| 2535 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 37   | 344310                        | 4555497 | 271                             |
| 2536 | Non-participating | 31                                      | 31             | 31                        | 32                        | 33            | 38   | 345456                        | 4569390 | 239                             |
| 2537 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 353685                        | 4550121 | 268                             |
| 2538 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 37   | 345082                        | 4552493 | 276                             |
| 2539 | Non-participating | 33                                      | 32             | 34                        | 34                        | 35            | 35   | 354853                        | 4551294 | 260                             |
| 2540 | Non-participating | 33                                      | 32             | 34                        | 33                        | 35            | 35   | 351572                        | 4548351 | 278                             |
| 2541 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 45   | 344264                        | 4566626 | 247                             |
| 2542 | Non-participating | 27                                      | 27             | 28                        | 27                        | 29            | 37   | 342788                        | 4554302 | 278                             |
| 2543 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 354001                        | 4554893 | 261                             |
| 2544 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350297                        | 4571382 | 239                             |
| 2545 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345208                        | 4569695 | 239                             |
| 2546 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354609                        | 4550930 | 266                             |
| 2547 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 355266                        | 4550754 | 263                             |
| 2548 | Non-participating | 27                                      | 27             | 28                        | 28                        | 29            | 34   | 343432                        | 4559864 | 261                             |
| 2549 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 36   | 345323                        | 4569814 | 238                             |
| 2550 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 348452                        | 4570955 | 234                             |
| 2551 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 347145                        | 4571096 | 232                             |
| 2552 | Non-participating | 26                                      | 26             | 27                        | 27                        | 28            | 30   | 349331                        | 4544207 | 286                             |
| 2553 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29            | 31   | 350159                        | 4545148 | 297                             |
| 2554 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 40   | 347195                        | 4569783 | 241                             |
| 2555 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 36   | 345651                        | 4569872 | 233                             |
| 2556 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 352322                        | 4549473 | 275                             |
| 2557 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 351716                        | 4579052 | 224                             |
| 2558 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 45   | 344264                        | 4566733 | 246                             |
| 2559 | Non-participating | 29                                      | 28             | 29                        | 29                        | 30            | 33   | 344085                        | 4561535 | 259                             |
| 2560 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355404                        | 4568375 | 229                             |
| 2561 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348293                        | 4570841 | 235                             |
| 2562 | Non-participating | 30                                      | 30             | 31                        | 31                        | 32            | 32   | 357994                        | 4578934 | 216                             |
| 2563 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344101                        | 4566572 | 247                             |
| 2564 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 37   | 345931                        | 4564024 | 249                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2565 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 43   | 345304                        | 4568538 | 240                             |
| 2566 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345866                        | 4570239 | 233                             |
| 2567 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 345042                        | 4558276 | 262                             |
| 2568 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 361012                        | 4577716 | 207                             |
| 2569 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 39   | 345653                        | 4569136 | 242                             |
| 2570 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 356548                        | 4569511 | 227                             |
| 2571 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 352165                        | 4559277 | 247                             |
| 2572 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355070                        | 4551171 | 260                             |
| 2573 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 45   | 344237                        | 4566163 | 247                             |
| 2574 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 344068                        | 4554773 | 272                             |
| 2575 | Non-participating | 33                                      | 33                | 34                                 | 33                                 | 35            | 36   | 346881                        | 4570776 | 233                             |
| 2576 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353371                        | 4560468 | 243                             |
| 2577 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 45   | 344258                        | 4566478 | 247                             |
| 2578 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353547                        | 4578673 | 224                             |
| 2579 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 346931                        | 4576603 | 221                             |
| 2580 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 37   | 350277                        | 4570792 | 237                             |
| 2581 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 359641                        | 4572125 | 213                             |
| 2582 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 47   | 342668                        | 4552626 | 284                             |
| 2583 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 354481                        | 4560840 | 239                             |
| 2584 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 352748                        | 4549515 | 275                             |
| 2585 | Non-participating | 29                                      | 29                | 30                                 | 29                                 | 31            | 31   | 347845                        | 4579205 | 221                             |
| 2586 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 360301                        | 4575237 | 213                             |
| 2587 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344402                        | 4561567 | 260                             |
| 2588 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 349993                        | 4571610 | 235                             |
| 2589 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 347258                        | 4571261 | 232                             |
| 2590 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 351513                        | 4548569 | 275                             |
| 2591 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353914                        | 4550045 | 267                             |
| 2592 | Non-participating | 24                                      | 23                | 24                                 | 24                                 | 26            | 36   | 341532                        | 4555965 | 275                             |
| 2593 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 346345                        | 4572993 | 228                             |
| 2594 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 37   | 346402                        | 4570012 | 235                             |
| 2595 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 37   | 345813                        | 4569736 | 235                             |
| 2596 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355193                        | 4551450 | 261                             |
| 2597 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355246                        | 4551388 | 263                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2598 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29         | 31   | 350263                        | 4545123 | 296                             |
| 2599 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 34   | 343787                        | 4557445 | 265                             |
| 2600 | Non-participating | 35                                      | 34             | 36                        | 35                        | 37         | 38   | 346670                        | 4569682 | 241                             |
| 2601 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 349049                        | 4571037 | 236                             |
| 2602 | Non-participating | 29                                      | 28             | 30                        | 30                        | 31         | 33   | 348199                        | 4544029 | 289                             |
| 2603 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 352097                        | 4557781 | 251                             |
| 2604 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 33   | 353785                        | 4579027 | 215                             |
| 2605 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31         | 33   | 343956                        | 4560368 | 260                             |
| 2606 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 346911                        | 4569932 | 240                             |
| 2607 | Non-participating | 34                                      | 33             | 35                        | 34                        | 36         | 36   | 352763                        | 4549407 | 275                             |
| 2608 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 354184                        | 4550570 | 269                             |
| 2609 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 46   | 344228                        | 4568018 | 237                             |
| 2610 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 44   | 344153                        | 4566806 | 246                             |
| 2611 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32         | 32   | 354820                        | 4563866 | 235                             |
| 2612 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38         | 39   | 347374                        | 4570273 | 236                             |
| 2613 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 36   | 345789                        | 4570138 | 233                             |
| 2614 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 355565                        | 4552666 | 262                             |
| 2615 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 44   | 344108                        | 4566136 | 246                             |
| 2616 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 357881                        | 4571986 | 219                             |
| 2617 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32         | 49   | 344658                        | 4549376 | 289                             |
| 2618 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30         | 38   | 343496                        | 4553219 | 279                             |
| 2619 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 347383                        | 4570344 | 235                             |
| 2620 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 347225                        | 4570647 | 234                             |
| 2621 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 33   | 355714                        | 4551685 | 266                             |
| 2622 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34         | 34   | 354109                        | 4564177 | 237                             |
| 2623 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 38   | 346824                        | 4569846 | 240                             |
| 2624 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 36   | 345436                        | 4569920 | 237                             |
| 2625 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 345010                        | 4557295 | 266                             |
| 2626 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 354535                        | 4578410 | 213                             |
| 2627 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 33   | 355638                        | 4578641 | 216                             |
| 2628 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 36   | 345861                        | 4570162 | 233                             |
| 2629 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 32   | 354834                        | 4561553 | 238                             |
| 2630 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 33   | 354018                        | 4555848 | 255                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2631 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345393                        | 4569748 | 237                             |
| 2632 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 37   | 346853                        | 4570395 | 234                             |
| 2633 | Non-participating | 31                                      | 30                | 32                                 | 32                                 | 33            | 44   | 344140                        | 4566633 | 247                             |
| 2634 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 29            | 32   | 343940                        | 4561429 | 256                             |
| 2635 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345919                        | 4569675 | 236                             |
| 2636 | Non-participating | 30                                      | 30                | 31                                 | 30                                 | 32            | 32   | 356332                        | 4567928 | 227                             |
| 2637 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355685                        | 4551819 | 268                             |
| 2638 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 361379                        | 4573941 | 213                             |
| 2639 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350060                        | 4571457 | 239                             |
| 2640 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345266                        | 4569878 | 239                             |
| 2641 | Non-participating | 27                                      | 26                | 28                                 | 27                                 | 29            | 37   | 342744                        | 4554242 | 277                             |
| 2642 | Non-participating | 25                                      | 24                | 25                                 | 25                                 | 27            | 44   | 342179                        | 4552724 | 281                             |
| 2643 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 34   | 343925                        | 4559331 | 262                             |
| 2644 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354527                        | 4550885 | 267                             |
| 2645 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 355158                        | 4551917 | 260                             |
| 2646 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344210                        | 4557546 | 263                             |
| 2647 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350635                        | 4571821 | 241                             |
| 2648 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 346579                        | 4573188 | 225                             |
| 2649 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 355304                        | 4551370 | 261                             |
| 2650 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355270                        | 4551114 | 260                             |
| 2651 | Non-participating | 27                                      | 27                | 28                                 | 27                                 | 29            | 31   | 350172                        | 4545382 | 297                             |
| 2652 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 356028                        | 4566823 | 227                             |
| 2653 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 44   | 344130                        | 4566357 | 246                             |
| 2654 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 34   | 345820                        | 4574626 | 227                             |
| 2655 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345572                        | 4570012 | 235                             |
| 2656 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 347434                        | 4579311 | 221                             |
| 2657 | Non-participating | 30                                      | 30                | 31                                 | 30                                 | 32            | 32   | 345807                        | 4575881 | 223                             |
| 2658 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 44   | 344306                        | 4567109 | 245                             |
| 2659 | Non-participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 39   | 347085                        | 4569933 | 240                             |
| 2660 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345971                        | 4570319 | 232                             |
| 2661 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355495                        | 4551146 | 266                             |
| 2662 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 39   | 345593                        | 4569109 | 242                             |
| 2663 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 353070                        | 4559237 | 243                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2664 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 34   | 343390                        | 4556604 | 271                             |
| 2665 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 34   | 344206                        | 4557545 | 263                             |
| 2666 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 354311                        | 4550851 | 264                             |
| 2667 | Non-participating | 29                                      | 28             | 29                        | 29                        | 30            | 32   | 349413                        | 4545125 | 296                             |
| 2668 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 36   | 345023                        | 4564123 | 251                             |
| 2669 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 35   | 344503                        | 4563942 | 250                             |
| 2670 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 349859                        | 4580004 | 216                             |
| 2671 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354393                        | 4578971 | 211                             |
| 2672 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 356391                        | 4575540 | 221                             |
| 2673 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350298                        | 4571796 | 237                             |
| 2674 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 39   | 345604                        | 4569205 | 242                             |
| 2675 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 42   | 345295                        | 4550180 | 283                             |
| 2676 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 358297                        | 4578654 | 216                             |
| 2677 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 39   | 343960                        | 4552539 | 280                             |
| 2678 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 353782                        | 4559914 | 244                             |
| 2679 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 44   | 344189                        | 4566695 | 247                             |
| 2680 | Non-participating | 27                                      | 26             | 27                        | 28                        | 29            | 32   | 343730                        | 4561458 | 254                             |
| 2681 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 346984                        | 4576099 | 219                             |
| 2682 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 31   | 361511                        | 4573694 | 213                             |
| 2683 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 36   | 347025                        | 4570906 | 232                             |
| 2684 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 346861                        | 4570908 | 232                             |
| 2685 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344104                        | 4566151 | 246                             |
| 2686 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 46   | 344295                        | 4566170 | 247                             |
| 2687 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 349674                        | 4571305 | 238                             |
| 2688 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32            | 32   | 359225                        | 4571258 | 215                             |
| 2689 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 36   | 347700                        | 4576774 | 220                             |
| 2690 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 37   | 344796                        | 4556731 | 266                             |
| 2691 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 35   | 352962                        | 4549486 | 271                             |
| 2692 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 351520                        | 4548293 | 278                             |
| 2693 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30            | 31   | 351092                        | 4546355 | 292                             |
| 2694 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 354380                        | 4578379 | 212                             |
| 2695 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 356192                        | 4570770 | 227                             |
| 2696 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 360726                        | 4572647 | 212                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2697 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 37   | 342178                        | 4554317 | 278                             |
| 2698 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 358479                        | 4578703 | 215                             |
| 2699 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 347297                        | 4576527 | 219                             |
| 2700 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355414                        | 4568433 | 229                             |
| 2701 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354770                        | 4550313 | 263                             |
| 2702 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 361550                        | 4577515 | 205                             |
| 2703 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 351648                        | 4579409 | 221                             |
| 2704 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 360782                        | 4575905 | 210                             |
| 2705 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346459                        | 4570581 | 232                             |
| 2706 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 352469                        | 4549417 | 278                             |
| 2707 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 355297                        | 4550763 | 263                             |
| 2708 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 351601                        | 4548457 | 277                             |
| 2709 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 46   | 344301                        | 4565974 | 248                             |
| 2710 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 44   | 344110                        | 4566584 | 247                             |
| 2711 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 35   | 344354                        | 4557481 | 266                             |
| 2712 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 49   | 344701                        | 4549380 | 289                             |
| 2713 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345690                        | 4569904 | 233                             |
| 2714 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 348366                        | 4570936 | 234                             |
| 2715 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 347184                        | 4571139 | 232                             |
| 2716 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 344989                        | 4557230 | 266                             |
| 2717 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 350388                        | 4570588 | 237                             |
| 2718 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344068                        | 4566490 | 247                             |
| 2719 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 346826                        | 4569872 | 239                             |
| 2720 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353505                        | 4579058 | 222                             |
| 2721 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 344013                        | 4561865 | 257                             |
| 2722 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 353741                        | 4560485 | 242                             |
| 2723 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 353958                        | 4554926 | 261                             |
| 2724 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 31   | 361078                        | 4572664 | 212                             |
| 2725 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 44   | 344132                        | 4567107 | 245                             |
| 2726 | Non-participating | 32                                      | 31                | 32                                 | 33                                 | 34            | 37   | 345786                        | 4569571 | 237                             |
| 2727 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 47   | 342733                        | 4552594 | 283                             |
| 2728 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 356555                        | 4576147 | 219                             |
| 2729 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 34   | 344336                        | 4559819 | 260                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2730 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 350806                        | 4571812 | 239                             |
| 2731 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 36   | 346767                        | 4570734 | 234                             |
| 2732 | Non-participating | 26                                      | 25             | 26                        | 26                        | 28         | 35   | 342245                        | 4556618 | 274                             |
| 2733 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30         | 31   | 351071                        | 4546314 | 292                             |
| 2734 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 353030                        | 4578926 | 226                             |
| 2735 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 353548                        | 4578537 | 224                             |
| 2736 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 360514                        | 4574703 | 214                             |
| 2737 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35         | 35   | 346904                        | 4576263 | 221                             |
| 2738 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 33   | 356528                        | 4570264 | 226                             |
| 2739 | Non-participating | 27                                      | 26             | 27                        | 29                        | 29         | 29   | 359622                        | 4571627 | 207                             |
| 2740 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 355544                        | 4568316 | 229                             |
| 2741 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 354358                        | 4550689 | 268                             |
| 2742 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 355060                        | 4551134 | 259                             |
| 2743 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 358243                        | 4578278 | 218                             |
| 2744 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 46   | 344285                        | 4566163 | 247                             |
| 2745 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 347224                        | 4571271 | 232                             |
| 2746 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 44   | 344154                        | 4566718 | 246                             |
| 2747 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 358698                        | 4572050 | 215                             |
| 2748 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 37   | 345220                        | 4569685 | 239                             |
| 2749 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 34   | 355607                        | 4578564 | 217                             |
| 2750 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 44   | 344221                        | 4567070 | 245                             |
| 2751 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 44   | 344098                        | 4566556 | 247                             |
| 2752 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33         | 37   | 345509                        | 4569731 | 235                             |
| 2753 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 349051                        | 4571112 | 235                             |
| 2754 | Non-participating | 27                                      | 26             | 27                        | 27                        | 29         | 31   | 350101                        | 4545134 | 298                             |
| 2755 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34         | 37   | 345788                        | 4569515 | 238                             |
| 2756 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 344918                        | 4557070 | 265                             |
| 2757 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 355127                        | 4551432 | 259                             |
| 2758 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 350585                        | 4572045 | 230                             |
| 2759 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 346939                        | 4569927 | 240                             |
| 2760 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32         | 32   | 354595                        | 4550582 | 264                             |
| 2761 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 49   | 345125                        | 4546946 | 293                             |
| 2762 | Non-participating | 29                                      | 28             | 29                        | 29                        | 30         | 32   | 348376                        | 4544084 | 288                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2763 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 345062                        | 4557271 | 265                             |
| 2764 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 44   | 344151                        | 4566828 | 246                             |
| 2765 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 347280                        | 4570715 | 233                             |
| 2766 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 33   | 354776                        | 4563972 | 233                             |
| 2767 | Non-participating | 32                                      | 31             | 33                        | 33                        | 34         | 34   | 355668                        | 4552806 | 259                             |
| 2768 | Non-participating | 27                                      | 27             | 28                        | 28                        | 29         | 29   | 361795                        | 4573010 | 211                             |
| 2769 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 357973                        | 4571996 | 218                             |
| 2770 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34         | 35   | 346429                        | 4573105 | 227                             |
| 2771 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 35   | 354159                        | 4564908 | 238                             |
| 2772 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35         | 37   | 346393                        | 4570038 | 234                             |
| 2773 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 347196                        | 4572499 | 228                             |
| 2774 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30         | 32   | 350260                        | 4546112 | 299                             |
| 2775 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 34   | 347846                        | 4544043 | 291                             |
| 2776 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34         | 34   | 354575                        | 4578697 | 209                             |
| 2777 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 354479                        | 4578401 | 213                             |
| 2778 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 349434                        | 4571213 | 237                             |
| 2779 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 347260                        | 4570634 | 234                             |
| 2780 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 347606                        | 4572169 | 232                             |
| 2781 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34         | 35   | 351245                        | 4548049 | 279                             |
| 2782 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33         | 44   | 344139                        | 4566443 | 247                             |
| 2783 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36         | 47   | 344730                        | 4567147 | 245                             |
| 2784 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 35   | 344479                        | 4563930 | 250                             |
| 2785 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30         | 33   | 343946                        | 4561594 | 257                             |
| 2786 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 46   | 344249                        | 4568000 | 238                             |
| 2787 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31         | 40   | 344043                        | 4550954 | 283                             |
| 2788 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35         | 36   | 344801                        | 4557319 | 263                             |
| 2789 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 38   | 346601                        | 4569675 | 241                             |
| 2790 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34         | 36   | 345849                        | 4570132 | 233                             |
| 2791 | Non-participating | 30                                      | 30             | 31                        | 30                        | 32         | 32   | 356353                        | 4567748 | 226                             |
| 2792 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33         | 33   | 348493                        | 4579221 | 218                             |
| 2793 | Non-participating | 26                                      | 25             | 26                        | 26                        | 28         | 36   | 342112                        | 4555002 | 277                             |
| 2794 | Non-participating | 30                                      | 29             | 30                        | 30                        | 32         | 33   | 345519                        | 4573627 | 228                             |
| 2795 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34         | 34   | 354096                        | 4564133 | 237                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2796 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 33   | 343916                        | 4560985 | 258                             |
| 2797 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345469                        | 4570032 | 237                             |
| 2798 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 30   | 360869                        | 4571807 | 213                             |
| 2799 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 347120                        | 4570718 | 233                             |
| 2800 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355491                        | 4568381 | 229                             |
| 2801 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 354517                        | 4550786 | 268                             |
| 2802 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354358                        | 4550436 | 267                             |
| 2803 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 352146                        | 4547992 | 280                             |
| 2804 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 31   | 351336                        | 4546408 | 292                             |
| 2805 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 353284                        | 4579417 | 222                             |
| 2806 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 350591                        | 4579611 | 218                             |
| 2807 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 45   | 344877                        | 4565457 | 249                             |
| 2808 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 344200                        | 4561507 | 260                             |
| 2809 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 350064                        | 4571709 | 236                             |
| 2810 | Non-participating | 34                                      | 34                | 34                                 | 35                                 | 36            | 36   | 350572                        | 4571939 | 232                             |
| 2811 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 36   | 346633                        | 4570645 | 234                             |
| 2812 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 32   | 349542                        | 4545104 | 296                             |
| 2813 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 33   | 348209                        | 4544050 | 289                             |
| 2814 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345214                        | 4569767 | 239                             |
| 2815 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344131                        | 4566546 | 247                             |
| 2816 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 40   | 343833                        | 4551025 | 283                             |
| 2817 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 347130                        | 4569792 | 240                             |
| 2818 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 356607                        | 4569500 | 225                             |
| 2819 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 361358                        | 4573837 | 212                             |
| 2820 | Non-participating | 37                                      | 36                | 38                                 | 38                                 | 39            | 39   | 348450                        | 4576551 | 221                             |
| 2821 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 48   | 342986                        | 4551880 | 285                             |
| 2822 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 345332                        | 4569750 | 239                             |
| 2823 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354097                        | 4549889 | 270                             |
| 2824 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 32   | 349416                        | 4545127 | 296                             |
| 2825 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345681                        | 4569924 | 233                             |
| 2826 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350175                        | 4571702 | 236                             |
| 2827 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345568                        | 4570018 | 235                             |
| 2828 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347251                        | 4570489 | 234                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2829 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 36   | 343168                        | 4554280 | 279                             |
| 2830 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 355559                        | 4551142 | 268                             |
| 2831 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 353197                        | 4579724 | 221                             |
| 2832 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 345802                        | 4576200 | 224                             |
| 2833 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 345806                        | 4575837 | 223                             |
| 2834 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350699                        | 4571854 | 240                             |
| 2835 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347088                        | 4573178 | 226                             |
| 2836 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 37   | 344590                        | 4552627 | 280                             |
| 2837 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 343970                        | 4560847 | 258                             |
| 2838 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 34   | 345820                        | 4574566 | 227                             |
| 2839 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345740                        | 4570125 | 234                             |
| 2840 | Non-participating | 29                                      | 29                | 30                                 | 31                                 | 31            | 31   | 354728                        | 4550718 | 260                             |
| 2841 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 32   | 355655                        | 4553867 | 257                             |
| 2842 | Non-participating | 32                                      | 31                | 33                                 | 33                                 | 34            | 34   | 355368                        | 4551472 | 264                             |
| 2843 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344227                        | 4567113 | 245                             |
| 2844 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347589                        | 4570498 | 235                             |
| 2845 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354309                        | 4551024 | 262                             |
| 2846 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 361103                        | 4573124 | 211                             |
| 2847 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 358241                        | 4578722 | 216                             |
| 2848 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347303                        | 4573094 | 227                             |
| 2849 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 46   | 344295                        | 4566020 | 248                             |
| 2850 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 349920                        | 4570561 | 238                             |
| 2851 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 37   | 345922                        | 4569502 | 240                             |
| 2852 | Non-participating | 28                                      | 28                | 29                                 | 28                                 | 30            | 32   | 349626                        | 4545230 | 297                             |
| 2853 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 31   | 361595                        | 4577402 | 206                             |
| 2854 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 31   | 349858                        | 4580044 | 216                             |
| 2855 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 354464                        | 4578993 | 211                             |
| 2856 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 33   | 358449                        | 4578722 | 215                             |
| 2857 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350076                        | 4571482 | 238                             |
| 2858 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 353917                        | 4550292 | 267                             |
| 2859 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 30            | 33   | 344031                        | 4561421 | 259                             |
| 2860 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 354189                        | 4551015 | 264                             |
| 2861 | Non-participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 36   | 356390                        | 4575604 | 221                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2862 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 347000                        | 4576199 | 221                             |
| 2863 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 38   | 346036                        | 4569244 | 241                             |
| 2864 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 353660                        | 4555963 | 256                             |
| 2865 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 49   | 345023                        | 4547351 | 293                             |
| 2866 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 356323                        | 4578309 | 218                             |
| 2867 | Non-participating | 29                                      | 28             | 29                        | 28                        | 30            | 32   | 350583                        | 4546380 | 296                             |
| 2868 | Non-participating | 33                                      | 33             | 34                        | 33                        | 35            | 36   | 347061                        | 4570974 | 232                             |
| 2869 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354312                        | 4563955 | 237                             |
| 2870 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 354001                        | 4560637 | 237                             |
| 2871 | Non-participating | 28                                      | 27             | 28                        | 28                        | 29            | 33   | 343937                        | 4561299 | 255                             |
| 2872 | Non-participating | 30                                      | 29             | 30                        | 30                        | 31            | 31   | 354768                        | 4550271 | 266                             |
| 2873 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 38   | 345418                        | 4569306 | 241                             |
| 2874 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 38   | 345700                        | 4569283 | 242                             |
| 2875 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 33   | 354857                        | 4579073 | 210                             |
| 2876 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355574                        | 4552543 | 263                             |
| 2877 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 348373                        | 4570864 | 235                             |
| 2878 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 46   | 344291                        | 4565980 | 248                             |
| 2879 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 36   | 345810                        | 4570035 | 235                             |
| 2880 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 39   | 347368                        | 4570247 | 236                             |
| 2881 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 35   | 345878                        | 4570306 | 233                             |
| 2882 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 33   | 355019                        | 4551083 | 261                             |
| 2883 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 354376                        | 4550507 | 267                             |
| 2884 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 354173                        | 4550391 | 269                             |
| 2885 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 361091                        | 4577683 | 207                             |
| 2886 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354514                        | 4578972 | 211                             |
| 2887 | Non-participating | 28                                      | 27             | 29                        | 29                        | 30            | 30   | 359405                        | 4571274 | 212                             |
| 2888 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 44   | 344133                        | 4566496 | 247                             |
| 2889 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 35   | 344855                        | 4559922 | 260                             |
| 2890 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 349984                        | 4570511 | 238                             |
| 2891 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 37   | 346816                        | 4570014 | 238                             |
| 2892 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 355606                        | 4568374 | 229                             |
| 2893 | Non-participating | 31                                      | 30             | 31                        | 32                        | 33            | 33   | 354630                        | 4550849 | 264                             |
| 2894 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 358801                        | 4578606 | 214                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2895 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 43   | 344098                        | 4566593 | 247                             |
| 2896 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344134                        | 4557510 | 263                             |
| 2897 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 349197                        | 4571184 | 234                             |
| 2898 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345483                        | 4569875 | 236                             |
| 2899 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 352366                        | 4549470 | 276                             |
| 2900 | Non-participating | 28                                      | 27                | 28                                 | 28                                 | 29            | 29   | 361551                        | 4572832 | 209                             |
| 2901 | Non-participating | 25                                      | 24                | 25                                 | 25                                 | 27            | 38   | 341805                        | 4554339 | 280                             |
| 2902 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 46   | 344975                        | 4565530 | 249                             |
| 2903 | Non-participating | 30                                      | 29                | 31                                 | 31                                 | 32            | 46   | 344251                        | 4567947 | 238                             |
| 2904 | Non-participating | 28                                      | 28                | 29                                 | 29                                 | 30            | 34   | 343001                        | 4555898 | 271                             |
| 2905 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 37   | 345413                        | 4569699 | 236                             |
| 2906 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 37   | 345810                        | 4569672 | 235                             |
| 2907 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 36   | 345207                        | 4569821 | 239                             |
| 2908 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 45   | 344241                        | 4566211 | 246                             |
| 2909 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344153                        | 4566850 | 245                             |
| 2910 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 36   | 347249                        | 4571103 | 232                             |
| 2911 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 35   | 351522                        | 4548145 | 279                             |
| 2912 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345526                        | 4570084 | 237                             |
| 2913 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 355447                        | 4551225 | 263                             |
| 2914 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354220                        | 4550769 | 266                             |
| 2915 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 353471                        | 4578842 | 224                             |
| 2916 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 360813                        | 4574503 | 214                             |
| 2917 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 346675                        | 4576628 | 221                             |
| 2918 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344141                        | 4566465 | 247                             |
| 2919 | Non-participating | 35                                      | 35                | 36                                 | 35                                 | 37            | 37   | 350248                        | 4570906 | 238                             |
| 2920 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 39   | 345632                        | 4569179 | 242                             |
| 2921 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 356601                        | 4569618 | 225                             |
| 2922 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 346351                        | 4572960 | 228                             |
| 2923 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 352469                        | 4549365 | 278                             |
| 2924 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 35   | 354569                        | 4578538 | 211                             |
| 2925 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 34   | 344258                        | 4560019 | 260                             |
| 2926 | Non-participating | 33                                      | 33                | 34                                 | 33                                 | 35            | 36   | 346961                        | 4570863 | 233                             |
| 2927 | Non-participating | 26                                      | 25                | 26                                 | 26                                 | 28            | 37   | 342181                        | 4554302 | 278                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2928 | Non-participating | 24                                      | 23             | 24                        | 24                        | 26            | 38   | 341364                        | 4554372 | 280                             |
| 2929 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 353867                        | 4549898 | 270                             |
| 2930 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 36   | 345434                        | 4569978 | 237                             |
| 2931 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345542                        | 4569923 | 234                             |
| 2932 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345262                        | 4569787 | 239                             |
| 2933 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 356402                        | 4575087 | 221                             |
| 2934 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 41   | 345144                        | 4568790 | 238                             |
| 2935 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 353666                        | 4579043 | 218                             |
| 2936 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 354300                        | 4550585 | 268                             |
| 2937 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 358042                        | 4578888 | 217                             |
| 2938 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37            | 37   | 349154                        | 4571080 | 236                             |
| 2939 | Non-participating | 31                                      | 30             | 32                        | 32                        | 33            | 44   | 344132                        | 4566563 | 247                             |
| 2940 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 44   | 344277                        | 4567185 | 246                             |
| 2941 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 38   | 345730                        | 4569457 | 239                             |
| 2942 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 37   | 345594                        | 4569799 | 234                             |
| 2943 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 36   | 346911                        | 4570857 | 232                             |
| 2944 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 32   | 355876                        | 4551798 | 268                             |
| 2945 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350281                        | 4571177 | 238                             |
| 2946 | Non-participating | 31                                      | 30             | 31                        | 31                        | 32            | 33   | 345768                        | 4573145 | 228                             |
| 2947 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 354236                        | 4564639 | 237                             |
| 2948 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 354272                        | 4564154 | 238                             |
| 2949 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 354054                        | 4563981 | 235                             |
| 2950 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 37   | 346510                        | 4569903 | 238                             |
| 2951 | Non-participating | 34                                      | 33             | 34                        | 34                        | 35            | 36   | 347289                        | 4572656 | 229                             |
| 2952 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 38   | 345243                        | 4569318 | 238                             |
| 2953 | Non-participating | 31                                      | 31             | 32                        | 31                        | 33            | 37   | 345337                        | 4569623 | 237                             |
| 2954 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 345063                        | 4557281 | 265                             |
| 2955 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 44   | 344227                        | 4566783 | 246                             |
| 2956 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345866                        | 4570209 | 233                             |
| 2957 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 37   | 345293                        | 4569759 | 239                             |
| 2958 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 344953                        | 4557158 | 266                             |
| 2959 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 354123                        | 4550137 | 268                             |
| 2960 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 44   | 344112                        | 4566312 | 246                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 2961 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350401                        | 4571630 | 237                             |
| 2962 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 38   | 346829                        | 4569787 | 240                             |
| 2963 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 346849                        | 4572286 | 228                             |
| 2964 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 51   | 345235                        | 4547905 | 293                             |
| 2965 | Non-participating | 31                                      | 31             | 32                        | 32                        | 33            | 36   | 345626                        | 4569963 | 233                             |
| 2966 | Non-participating | 31                                      | 30             | 31                        | 31                        | 33            | 43   | 344042                        | 4566383 | 247                             |
| 2967 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 45   | 344335                        | 4567189 | 245                             |
| 2968 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350556                        | 4572058 | 230                             |
| 2969 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 349278                        | 4571147 | 236                             |
| 2970 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 356293                        | 4570728 | 225                             |
| 2971 | Non-participating | 33                                      | 32             | 33                        | 33                        | 34            | 34   | 351642                        | 4579134 | 223                             |
| 2972 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 347810                        | 4576359 | 221                             |
| 2973 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 44   | 344258                        | 4567119 | 245                             |
| 2974 | Non-participating | 37                                      | 37             | 38                        | 38                        | 39            | 39   | 350422                        | 4569724 | 243                             |
| 2975 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 357823                        | 4572083 | 219                             |
| 2976 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 354306                        | 4554704 | 261                             |
| 2977 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 33   | 354936                        | 4550697 | 262                             |
| 2978 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 355224                        | 4551531 | 262                             |
| 2979 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 30   | 360882                        | 4571933 | 213                             |
| 2980 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 360368                        | 4575226 | 213                             |
| 2981 | Non-participating | 28                                      | 27             | 28                        | 29                        | 30            | 33   | 343950                        | 4561475 | 257                             |
| 2982 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 37   | 345925                        | 4563813 | 249                             |
| 2983 | Non-participating | 32                                      | 31             | 32                        | 32                        | 33            | 36   | 345748                        | 4569991 | 234                             |
| 2984 | Non-participating | 32                                      | 31             | 32                        | 32                        | 34            | 34   | 353431                        | 4549483 | 270                             |
| 2985 | Non-participating | 31                                      | 30             | 32                        | 31                        | 33            | 33   | 355533                        | 4551347 | 266                             |
| 2986 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 32   | 349360                        | 4545118 | 295                             |
| 2987 | Non-participating | 28                                      | 27             | 28                        | 28                        | 30            | 30   | 347966                        | 4579837 | 221                             |
| 2988 | Non-participating | 32                                      | 32             | 33                        | 33                        | 34            | 34   | 354250                        | 4578918 | 211                             |
| 2989 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 350332                        | 4571155 | 238                             |
| 2990 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 37   | 344502                        | 4555450 | 270                             |
| 2991 | Non-participating | 28                                      | 28             | 29                        | 29                        | 30            | 34   | 343288                        | 4556725 | 270                             |
| 2992 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 344880                        | 4556946 | 264                             |
| 2993 | Non-participating | 29                                      | 28             | 29                        | 29                        | 31            | 33   | 344156                        | 4561514 | 259                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 2994 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345580                        | 4569873 | 233                             |
| 2995 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 36   | 345268                        | 4569842 | 239                             |
| 2996 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 43   | 344098                        | 4565898 | 247                             |
| 2997 | Non-participating | 34                                      | 33                | 34                                 | 35                                 | 36            | 37   | 346412                        | 4569683 | 240                             |
| 2998 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 354415                        | 4550976 | 263                             |
| 2999 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 31   | 350084                        | 4545214 | 297                             |
| 3000 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 30   | 347505                        | 4579217 | 221                             |
| 3001 | Non-participating | 27                                      | 26                | 27                                 | 27                                 | 29            | 37   | 342758                        | 4554223 | 277                             |
| 3002 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355815                        | 4568095 | 228                             |
| 3003 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 34   | 355760                        | 4566867 | 227                             |
| 3004 | Non-participating | 29                                      | 28                | 29                                 | 30                                 | 31            | 31   | 354382                        | 4550152 | 262                             |
| 3005 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 350246                        | 4571772 | 236                             |
| 3006 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 345802                        | 4576153 | 224                             |
| 3007 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 352512                        | 4549465 | 278                             |
| 3008 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 37   | 345811                        | 4569749 | 235                             |
| 3009 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 33            | 36   | 345583                        | 4569819 | 234                             |
| 3010 | Non-participating | 27                                      | 26                | 27                                 | 28                                 | 29            | 30   | 351028                        | 4546351 | 291                             |
| 3011 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 34            | 34   | 355813                        | 4578217 | 218                             |
| 3012 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344144                        | 4566600 | 247                             |
| 3013 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 350079                        | 4571552 | 238                             |
| 3014 | Non-participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346878                        | 4570754 | 233                             |
| 3015 | Non-participating | 31                                      | 31                | 31                                 | 31                                 | 33            | 33   | 354576                        | 4564096 | 235                             |
| 3016 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 353953                        | 4549745 | 270                             |
| 3017 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 44   | 344153                        | 4566668 | 247                             |
| 3018 | Non-participating | 31                                      | 30                | 31                                 | 32                                 | 32            | 32   | 354432                        | 4550550 | 266                             |
| 3019 | Non-participating | 31                                      | 31                | 32                                 | 32                                 | 33            | 33   | 345816                        | 4574772 | 224                             |
| 3020 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 36   | 346918                        | 4575861 | 221                             |
| 3021 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 352567                        | 4549530 | 276                             |
| 3022 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 51   | 345218                        | 4547164 | 292                             |
| 3023 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 361371                        | 4577574 | 206                             |
| 3024 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 349860                        | 4579878 | 216                             |
| 3025 | Non-participating | 29                                      | 29                | 30                                 | 29                                 | 31            | 31   | 345597                        | 4576054 | 224                             |
| 3026 | Non-participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 45   | 344979                        | 4565470 | 249                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 3027 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 45   | 344254                        | 4568362 | 242                             |
| 3028 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 350034                        | 4571496 | 238                             |
| 3029 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 33   | 343901                        | 4560706 | 260                             |
| 3030 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 30            | 33   | 344002                        | 4561716 | 257                             |
| 3031 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 34   | 344323                        | 4561534 | 260                             |
| 3032 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 36   | 345627                        | 4569836 | 233                             |
| 3033 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 352898                        | 4559134 | 245                             |
| 3034 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 355646                        | 4554157 | 251                             |
| 3035 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 355384                        | 4550951 | 261                             |
| 3036 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 32   | 350354                        | 4546463 | 295                             |
| 3037 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 348613                        | 4571006 | 235                             |
| 3038 | Non-participating | 29                                      | 28                | 29                                 | 28                                 | 30            | 32   | 350580                        | 4546382 | 296                             |
| 3039 | Non-participating | 30                                      | 29                | 31                                 | 31                                 | 32            | 32   | 361219                        | 4577640 | 206                             |
| 3040 | Non-participating | 24                                      | 23                | 24                                 | 24                                 | 26            | 38   | 341421                        | 4554274 | 280                             |
| 3041 | Non-participating | 32                                      | 31                | 32                                 | 32                                 | 34            | 35   | 344877                        | 4559908 | 260                             |
| 3042 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 347198                        | 4576626 | 218                             |
| 3043 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 38   | 345731                        | 4569244 | 242                             |
| 3044 | Non-participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 355408                        | 4568392 | 229                             |
| 3045 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 33            | 33   | 354544                        | 4550251 | 259                             |
| 3046 | Non-participating | 31                                      | 30                | 31                                 | 31                                 | 32            | 32   | 361288                        | 4574988 | 210                             |
| 3047 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 345497                        | 4575243 | 223                             |
| 3048 | Non-participating | 29                                      | 29                | 30                                 | 30                                 | 31            | 31   | 354828                        | 4560787 | 238                             |
| 3049 | Non-participating | 32                                      | 32                | 33                                 | 33                                 | 34            | 34   | 354315                        | 4578922 | 211                             |
| 3050 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 31            | 31   | 357825                        | 4579087 | 216                             |
| 3051 | Non-participating | 29                                      | 28                | 29                                 | 29                                 | 31            | 33   | 343971                        | 4560759 | 259                             |
| 3052 | Non-participating | 30                                      | 30                | 31                                 | 31                                 | 32            | 34   | 344525                        | 4561516 | 260                             |
| 3053 | Non-participating | 30                                      | 29                | 30                                 | 30                                 | 32            | 32   | 355075                        | 4563619 | 235                             |
| 3054 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347892                        | 4570768 | 235                             |
| 3055 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347830                        | 4570737 | 235                             |
| 3056 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347953                        | 4570791 | 234                             |
| 3057 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347995                        | 4570802 | 234                             |
| 3058 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 348032                        | 4570818 | 234                             |
| 3059 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 348096                        | 4570846 | 234                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 3060 | Non-Participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 347941                        | 4570660 | 235                             |
| 3061 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 348043                        | 4570740 | 236                             |
| 3062 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347788                        | 4570650 | 235                             |
| 3063 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347761                        | 4570638 | 236                             |
| 3064 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347714                        | 4570620 | 236                             |
| 3065 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347826                        | 4570664 | 236                             |
| 3066 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347852                        | 4570674 | 236                             |
| 3067 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347881                        | 4570685 | 236                             |
| 3068 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347681                        | 4570610 | 236                             |
| 3069 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347684                        | 4570679 | 236                             |
| 3070 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347723                        | 4570694 | 236                             |
| 3071 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347782                        | 4570717 | 235                             |
| 3072 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348188                        | 4570681 | 236                             |
| 3073 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 348450                        | 4570885 | 235                             |
| 3074 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347640                        | 4570667 | 236                             |
| 3075 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347611                        | 4570655 | 235                             |
| 3076 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347581                        | 4570645 | 235                             |
| 3077 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347553                        | 4570636 | 235                             |
| 3078 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347520                        | 4570626 | 235                             |
| 3079 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347490                        | 4570617 | 235                             |
| 3080 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347458                        | 4570612 | 235                             |
| 3081 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347534                        | 4570552 | 235                             |
| 3082 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347585                        | 4570564 | 236                             |
| 3083 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347622                        | 4570586 | 236                             |
| 3084 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347429                        | 4570528 | 235                             |
| 3085 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347473                        | 4570531 | 235                             |
| 3086 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 37            | 38   | 347505                        | 4570547 | 235                             |
| 3087 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347394                        | 4570637 | 234                             |
| 3088 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 347328                        | 4570669 | 234                             |
| 3089 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347315                        | 4570614 | 235                             |
| 3090 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347249                        | 4570596 | 235                             |
| 3091 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347234                        | 4570592 | 235                             |
| 3092 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 347204                        | 4570595 | 235                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 3093 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 37   | 347163                        | 4570601 | 235                             |
| 3094 | Non-Participating | 34                                      | 34                | 35                                 | 35                                 | 36            | 37   | 347122                        | 4570606 | 235                             |
| 3095 | Non-Participating | 34                                      | 33                | 35                                 | 34                                 | 36            | 37   | 347089                        | 4570612 | 235                             |
| 3096 | Non-Participating | 35                                      | 34                | 35                                 | 35                                 | 37            | 37   | 347263                        | 4570593 | 235                             |
| 3097 | Church            | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 347293                        | 4569805 | 241                             |
| 3098 | Non-Participating | 37                                      | 37                | 38                                 | 38                                 | 39            | 40   | 347227                        | 4569792 | 241                             |
| 3099 | Church            | 37                                      | 37                | 38                                 | 38                                 | 39            | 39   | 351250                        | 4569492 | 242                             |
| 3100 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348707                        | 4573071 | 227                             |
| 3101 | Non-Participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348599                        | 4573018 | 228                             |
| 3102 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348584                        | 4573096 | 227                             |
| 3103 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348537                        | 4573102 | 227                             |
| 3104 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 39            | 39   | 348859                        | 4573095 | 227                             |
| 3105 | Non-Participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 348113                        | 4573107 | 227                             |
| 3106 | Non-Participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 347985                        | 4573110 | 227                             |
| 3107 | Non-Participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 347828                        | 4573066 | 227                             |
| 3108 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 346905                        | 4573171 | 226                             |
| 3109 | Non-Participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 36   | 346936                        | 4573169 | 226                             |
| 3110 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 346874                        | 4573172 | 226                             |
| 3111 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 346843                        | 4573177 | 226                             |
| 3112 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 346818                        | 4573179 | 226                             |
| 3113 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 36            | 36   | 346786                        | 4573176 | 225                             |
| 3114 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346755                        | 4573178 | 226                             |
| 3115 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346722                        | 4573183 | 226                             |
| 3116 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346685                        | 4573185 | 226                             |
| 3117 | Non-Participating | 33                                      | 32                | 33                                 | 33                                 | 35            | 35   | 346535                        | 4573184 | 225                             |
| 3118 | Non-Participating | 33                                      | 32                | 34                                 | 33                                 | 35            | 35   | 346568                        | 4573241 | 225                             |
| 3119 | Non-Participating | 33                                      | 33                | 34                                 | 34                                 | 35            | 35   | 346578                        | 4573273 | 225                             |
| 3120 | Non-Participating | 34                                      | 33                | 34                                 | 34                                 | 35            | 36   | 346596                        | 4573314 | 225                             |
| 3121 | School            | 32                                      | 32                | 33                                 | 33                                 | 34            | 35   | 346526                        | 4572970 | 226                             |
| 3122 | Non-Participating | 36                                      | 36                | 37                                 | 37                                 | 38            | 38   | 346832                        | 4573838 | 224                             |
| 3123 | Non-Participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 346865                        | 4573867 | 225                             |
| 3124 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 346684                        | 4573818 | 225                             |
| 3125 | Non-Participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 346756                        | 4573680 | 223                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |            |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG 4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 3126 | Non-Participating | 35                                      | 34             | 36                        | 35                        | 37         | 37   | 346743                        | 4573653 | 223                             |
| 3127 | Non-Participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 346732                        | 4573625 | 223                             |
| 3128 | Non-Participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 346719                        | 4573595 | 224                             |
| 3129 | Non-Participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 346707                        | 4573571 | 224                             |
| 3130 | Non-Participating | 35                                      | 34             | 35                        | 35                        | 36         | 37   | 346693                        | 4573537 | 224                             |
| 3131 | Non-Participating | 34                                      | 34             | 35                        | 35                        | 36         | 36   | 346678                        | 4573496 | 225                             |
| 3132 | Non-Participating | 34                                      | 33             | 35                        | 34                        | 36         | 36   | 346662                        | 4573467 | 225                             |
| 3133 | Non-Participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 346651                        | 4573441 | 225                             |
| 3134 | Non-Participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 346641                        | 4573411 | 225                             |
| 3135 | Non-Participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 346628                        | 4573380 | 225                             |
| 3136 | Non-Participating | 34                                      | 33             | 34                        | 34                        | 35         | 36   | 346614                        | 4573355 | 225                             |
| 3137 | Non-Participating | 39                                      | 38             | 39                        | 39                        | 40         | 40   | 346935                        | 4574288 | 222                             |
| 3138 | Non-Participating | 37                                      | 37             | 38                        | 38                        | 39         | 39   | 346842                        | 4574171 | 222                             |
| 3139 | Non-Participating | 37                                      | 36             | 37                        | 37                        | 38         | 38   | 346900                        | 4575303 | 223                             |
| 3140 | Non-Participating | 36                                      | 36             | 37                        | 37                        | 38         | 38   | 346899                        | 4575368 | 222                             |
| 3141 | Non-Participating | 36                                      | 36             | 37                        | 37                        | 38         | 38   | 346901                        | 4575396 | 222                             |
| 3142 | Non-Participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 346936                        | 4575565 | 220                             |
| 3143 | Non-Participating | 34                                      | 33             | 34                        | 34                        | 36         | 36   | 346837                        | 4575964 | 219                             |
| 3144 | Non-Participating | 34                                      | 33             | 35                        | 35                        | 36         | 36   | 346900                        | 4575963 | 219                             |
| 3145 | Non-Participating | 34                                      | 33             | 35                        | 35                        | 36         | 36   | 346922                        | 4575910 | 220                             |
| 3146 | Church            | 42                                      | 41             | 42                        | 42                        | 44         | 44   | 353856                        | 4576137 | 224                             |
| 3147 | Non-Participating | 40                                      | 40             | 41                        | 41                        | 42         | 42   | 353831                        | 4575960 | 225                             |
| 3148 | Church            | 35                                      | 35             | 36                        | 36                        | 37         | 37   | 349685                        | 4558551 | 251                             |
| 3149 | Non-Participating | 36                                      | 35             | 37                        | 37                        | 38         | 38   | 354727                        | 4551718 | 251                             |
| 3150 | Church            | 33                                      | 32             | 33                        | 33                        | 35         | 35   | 360129                        | 4578147 | 213                             |
| 3151 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 38   | 347393                        | 4570512 | 235                             |
| 3152 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38         | 38   | 350486                        | 4578382 | 222                             |
| 3153 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38         | 38   | 350490                        | 4578431 | 222                             |
| 3154 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37         | 37   | 351036                        | 4578518 | 224                             |
| 3155 | Non-participating | 35                                      | 35             | 36                        | 36                        | 37         | 37   | 351155                        | 4578584 | 223                             |
| 3156 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37         | 37   | 344940                        | 4557115 | 265                             |
| 3157 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 351894                        | 4569312 | 242                             |
| 3158 | Non-participating | 41                                      | 40             | 41                        | 41                        | 42         | 42   | 352127                        | 4569261 | 240                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 3159 | Church            | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 351921                        | 4578819 | 225                             |
| 3160 | Non-participating | 35                                      | 34             | 36                        | 35                        | 37            | 37   | 347430                        | 4570609 | 235                             |
| 3161 | Non-participating | 35                                      | 34             | 36                        | 35                        | 37            | 37   | 354378                        | 4578283 | 213                             |
| 3162 | Participating     | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 356086                        | 4576568 | 220                             |
| 3163 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 354323                        | 4578324 | 211                             |
| 3164 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 40   | 345904                        | 4565110 | 249                             |
| 3165 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 39   | 346866                        | 4569672 | 241                             |
| 3166 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 39   | 346921                        | 4569760 | 241                             |
| 3167 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 39   | 346948                        | 4569769 | 240                             |
| 3168 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 39   | 346997                        | 4569765 | 241                             |
| 3169 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 39   | 346991                        | 4569814 | 240                             |
| 3170 | Non-participating | 36                                      | 35             | 37                        | 36                        | 38            | 39   | 347010                        | 4569870 | 240                             |
| 3171 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 39   | 347038                        | 4569876 | 240                             |
| 3172 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347063                        | 4569842 | 240                             |
| 3173 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 39   | 347056                        | 4569792 | 240                             |
| 3174 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 347098                        | 4569780 | 241                             |
| 3175 | Participating     | 44                                      | 43             | 44                        | 44                        | 44            | 44   | 352011                        | 4570555 | 237                             |
| 3176 | Participating     | 45                                      | 45             | 45                        | 45                        | 45            | 45   | 352029                        | 4570499 | 237                             |
| 3177 | Non-participating | 40                                      | 39             | 40                        | 40                        | 42            | 42   | 350000                        | 4573310 | 226                             |
| 3178 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 348429                        | 4573022 | 227                             |
| 3179 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 346853                        | 4573929 | 225                             |
| 3180 | Non-participating | 35                                      | 34             | 36                        | 36                        | 37            | 37   | 347453                        | 4576215 | 223                             |
| 3181 | Non-participating | 33                                      | 32             | 34                        | 34                        | 35            | 35   | 348227                        | 4578259 | 218                             |
| 3182 | Non-participating | 33                                      | 32             | 33                        | 33                        | 35            | 35   | 358072                        | 4578394 | 219                             |
| 3183 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 354819                        | 4551411 | 261                             |
| 3184 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 354820                        | 4551314 | 261                             |
| 3185 | Non-participating | 33                                      | 33             | 34                        | 34                        | 35            | 35   | 354582                        | 4551225 | 261                             |
| 3186 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 354461                        | 4551233 | 265                             |
| 3187 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 354444                        | 4551196 | 264                             |
| 3188 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 354404                        | 4551321 | 265                             |
| 3189 | Non-participating | 40                                      | 39             | 40                        | 40                        | 41            | 41   | 353827                        | 4551619 | 262                             |
| 3190 | Non-participating | 39                                      | 38             | 39                        | 39                        | 41            | 41   | 353902                        | 4551593 | 261                             |
| 3191 | Non-participating | 38                                      | 37             | 38                        | 38                        | 39            | 39   | 353992                        | 4551475 | 259                             |

| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                |                           |                           |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|----------------|---------------------------|---------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2 MW                          | V150<br>5.6 MW | N149<br>4.5 MW at 109m HH | N149<br>4.5 MW at 125m HH | SG<br>4.5-145 | Cumulative (Emerson w/SG4.5-145, Republic, and Seneca) | X (m)                         | Y (m)   |                                 |
| 3192 | Non-participating | 39                                      | 38             | 39                        | 39                        | 40            | 40   | 353840                        | 4551519 | 261                             |
| 3193 | Non-participating | 38                                      | 37             | 39                        | 39                        | 40            | 40   | 353864                        | 4551464 | 263                             |
| 3194 | Non-participating | 38                                      | 37             | 38                        | 38                        | 40            | 40   | 353856                        | 4551415 | 262                             |
| 3195 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 354207                        | 4551370 | 259                             |
| 3196 | Non-participating | 36                                      | 35             | 37                        | 36                        | 38            | 38   | 354215                        | 4551312 | 262                             |
| 3197 | Non-participating | 36                                      | 35             | 37                        | 37                        | 38            | 38   | 354195                        | 4551269 | 264                             |
| 3198 | Non-participating | 37                                      | 36             | 38                        | 38                        | 39            | 39   | 354011                        | 4551376 | 262                             |
| 3199 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 354085                        | 4551351 | 261                             |
| 3200 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 354031                        | 4551325 | 265                             |
| 3201 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 354119                        | 4551195 | 266                             |
| 3202 | Non-participating | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 354006                        | 4551218 | 266                             |
| 3203 | Non-participating | 33                                      | 32             | 33                        | 35                        | 35            | 35   | 354080                        | 4551115 | 262                             |
| 3204 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353980                        | 4551145 | 267                             |
| 3205 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 353888                        | 4551216 | 263                             |
| 3206 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353921                        | 4551111 | 267                             |
| 3207 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353874                        | 4551088 | 267                             |
| 3208 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 353882                        | 4550961 | 267                             |
| 3209 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353753                        | 4551013 | 266                             |
| 3210 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 353747                        | 4550967 | 267                             |
| 3211 | Non-participating | 36                                      | 35             | 36                        | 36                        | 38            | 38   | 353593                        | 4550962 | 267                             |
| 3212 | Participating     | 36                                      | 36             | 37                        | 37                        | 38            | 38   | 353595                        | 4551130 | 266                             |
| 3213 | Non-participating | 37                                      | 36             | 37                        | 37                        | 38            | 38   | 353740                        | 4551191 | 261                             |
| 3214 | Non-participating | 37                                      | 36             | 37                        | 37                        | 39            | 39   | 353744                        | 4551242 | 261                             |
| 3215 | Non-participating | 36                                      | 35             | 36                        | 36                        | 37            | 37   | 353512                        | 4550843 | 269                             |
| 3216 | Non-participating | 34                                      | 33             | 35                        | 35                        | 36            | 36   | 354082                        | 4550944 | 265                             |
| 3217 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 354057                        | 4550945 | 266                             |
| 3218 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 354032                        | 4550969 | 265                             |
| 3219 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 353992                        | 4550987 | 263                             |
| 3220 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 353967                        | 4550876 | 266                             |
| 3221 | Non-participating | 34                                      | 33             | 34                        | 34                        | 36            | 36   | 354069                        | 4550827 | 266                             |
| 3222 | Non-participating | 34                                      | 34             | 35                        | 35                        | 36            | 36   | 354029                        | 4550807 | 267                             |
| 3223 | Non-participating | 35                                      | 34             | 35                        | 35                        | 36            | 36   | 353663                        | 4550676 | 269                             |
| 3224 | Non-participating | 35                                      | 34             | 35                        | 35                        | 37            | 37   | 352559                        | 4549465 | 278                             |



| ID   | Receiver Status   | Sound Pressure Level (dBA) by Model Run |                   |                                    |                                    |               |  | Coordinates (WGS 84, UTM 17N) |         | Elevation + Receiver Height (m) |
|------|-------------------|---|-------------------|------------------------------------|------------------------------------|---------------|--|-------------------------------|---------|---------------------------------|
|      |                   | V150<br>4.2<br>MW                       | V150<br>5.6<br>MW | N149<br>4.5<br>MW at<br>109m<br>HH | N149<br>4.5<br>MW at<br>125m<br>HH | SG<br>4.5-145 | Cumulative<br>(Emerson<br>w/SG4.5-145,<br>Republic, and<br>Seneca) | X (m)                         | Y (m)   |                                 |
| 3225 | Non-participating | 34                                      | 33                | 35                                 | 35                                 | 36            | 43   | 345800                        | 4549403 | 280                             |
| 3226 | Non-participating | 35                                      | 34                | 35                                 | 35                                 | 36            | 42   | 345686                        | 4549937 | 284                             |
| 3227 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 346460                        | 4553376 | 271                             |
| 3228 | Non-participating | 35                                      | 35                | 36                                 | 36                                 | 37            | 37   | 351681                        | 4557772 | 251                             |
| 3229 | Non-participating | 36                                      | 35                | 36                                 | 36                                 | 38            | 38   | 354527                        | 4551468 | 260                             |
| 3230 | Non-participating | 43                                      | 42                | 44                                 | 44                                 | 45            | 45   | 348185                        | 4569886 | 242                             |
| 3231 | Non-participating | 38                                      | 37                | 38                                 | 38                                 | 40            | 40   | 348165                        | 4570467 | 237                             |
| 3232 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 41            | 41   | 348094                        | 4570265 | 239                             |
| 3233 | Non-participating | 39                                      | 38                | 39                                 | 39                                 | 40            | 40   | 353082                        | 4570453 | 235                             |
| 3234 | Participating     | 42                                      | 41                | 43                                 | 42                                 | 44            | 44   | 350657                        | 4573439 | 226                             |
| 3235 | Non-participating | 37                                      | 36                | 37                                 | 37                                 | 38            | 39   | 348180                        | 4573148 | 227                             |
| 3236 | Non-participating | 38                                      | 37                | 39                                 | 39                                 | 40            | 40   | 358255                        | 4577595 | 219                             |

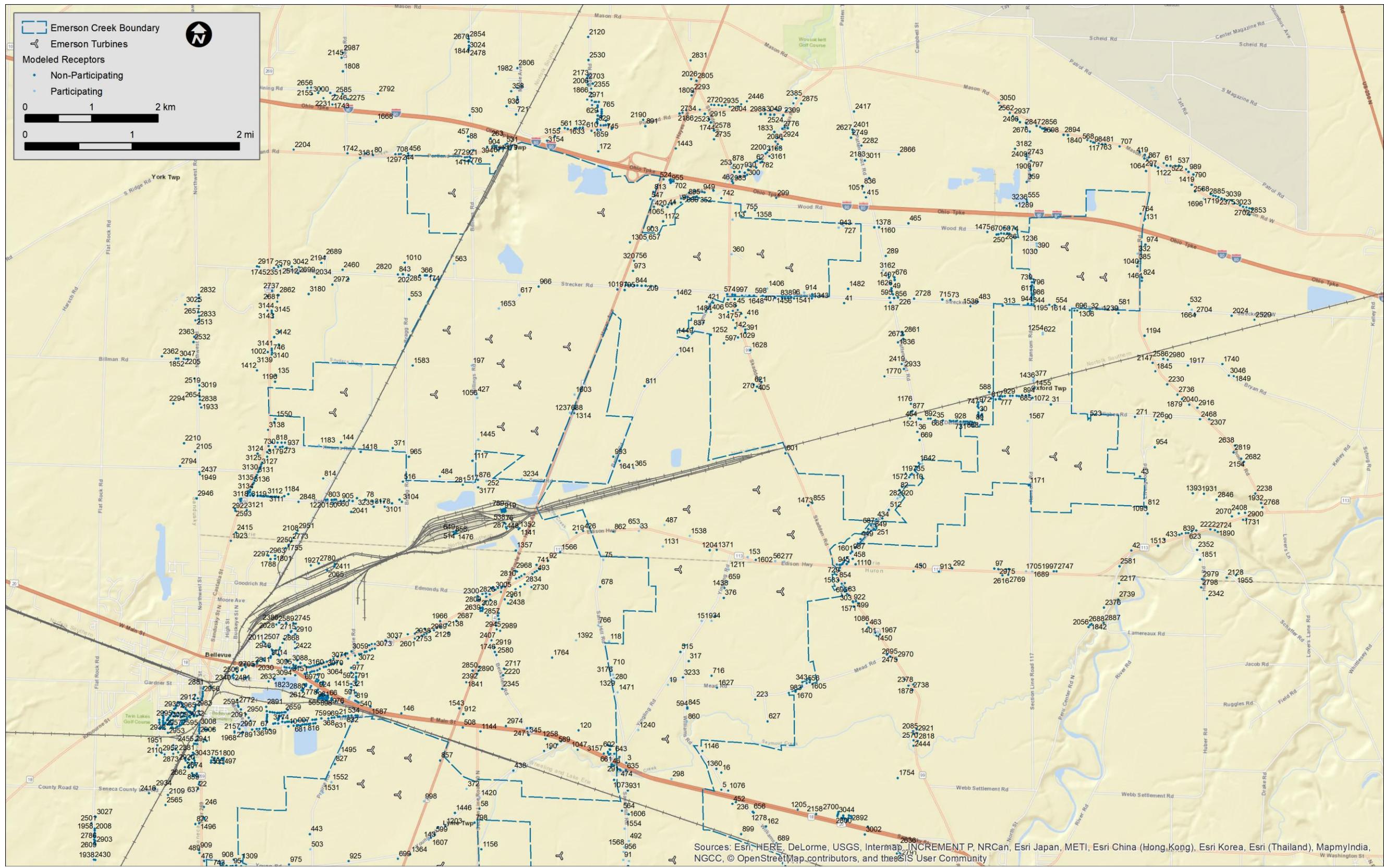
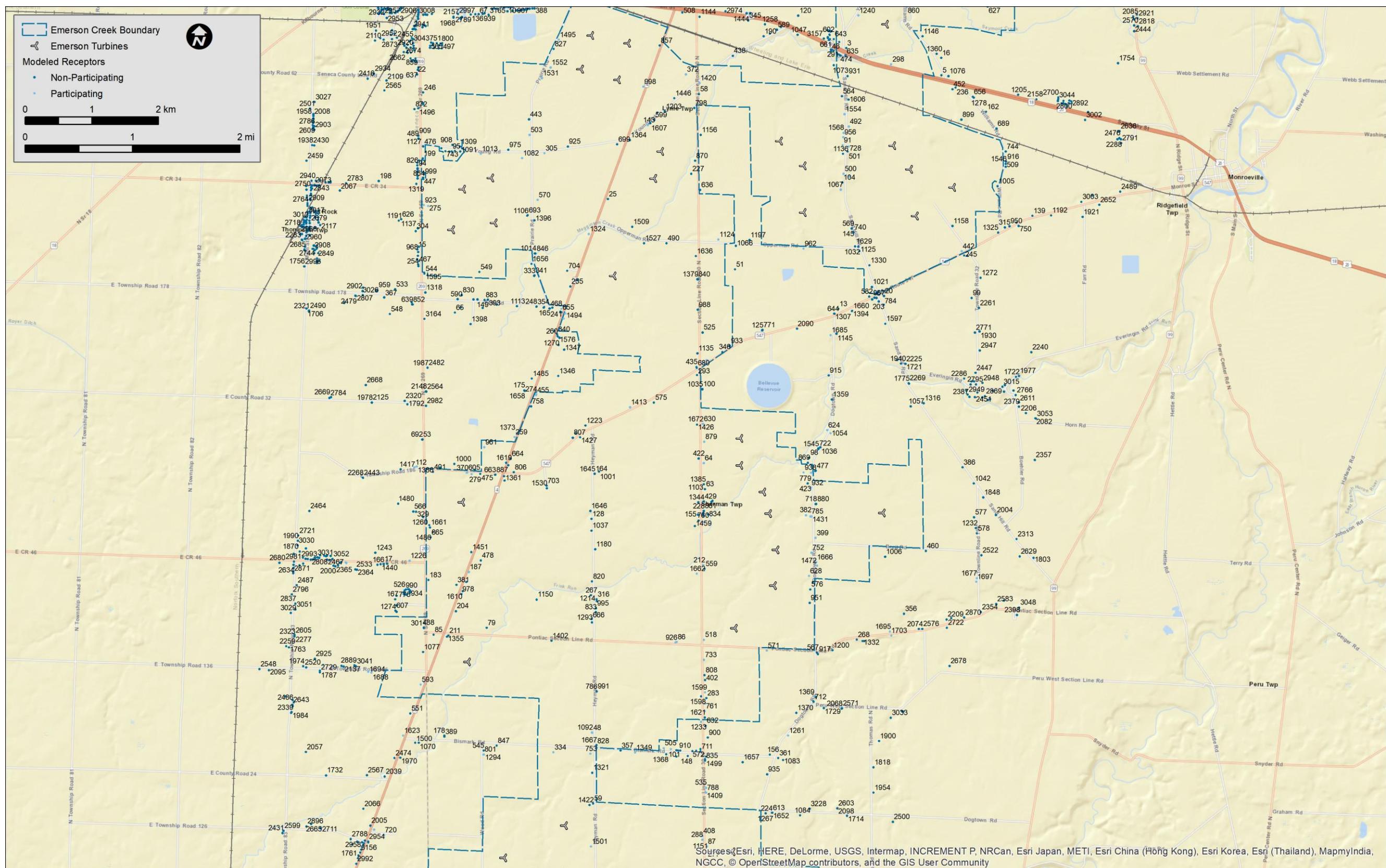
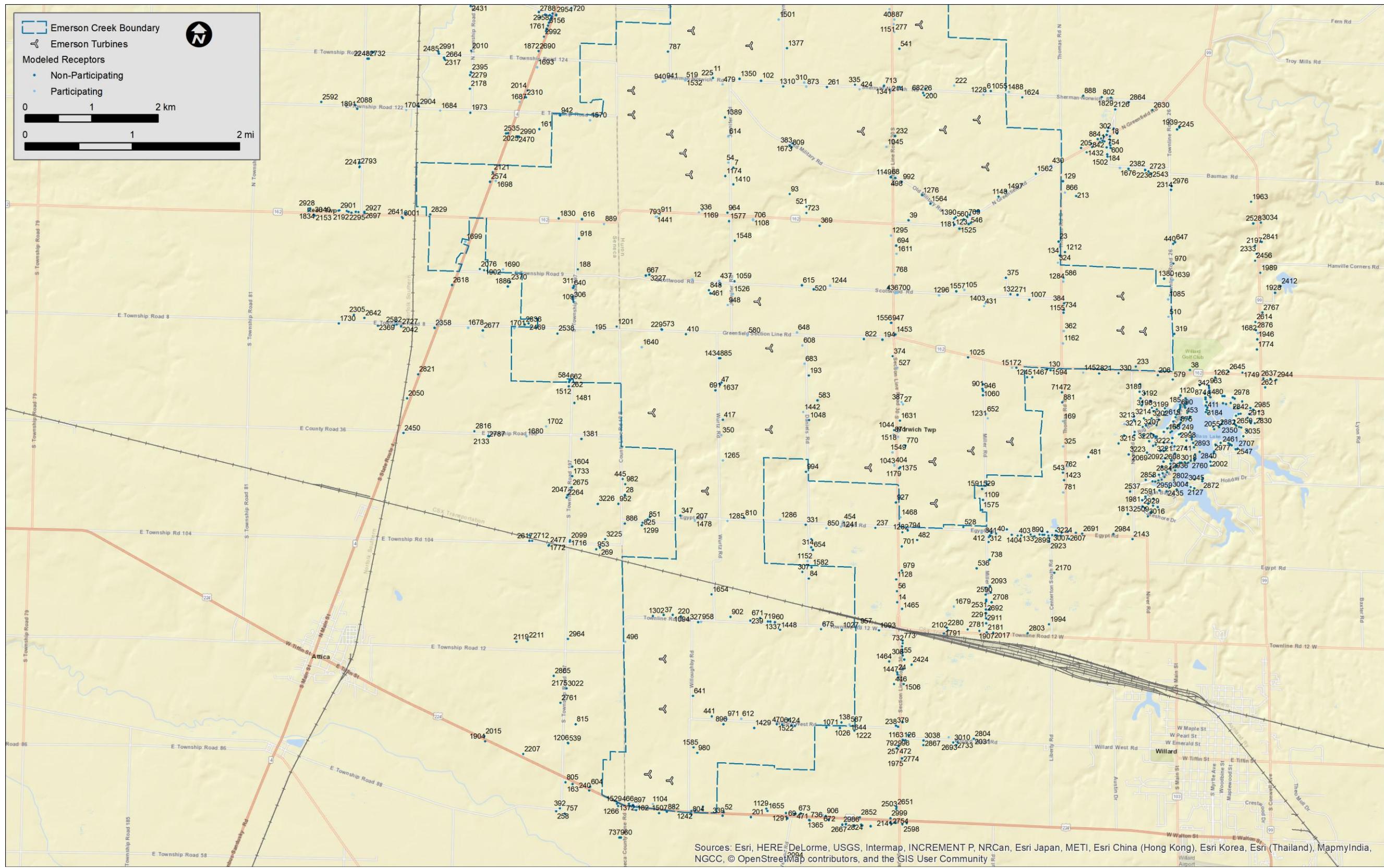


FIGURE 60: MODELED RECEPTOR MAP (NORTHERN AREA)





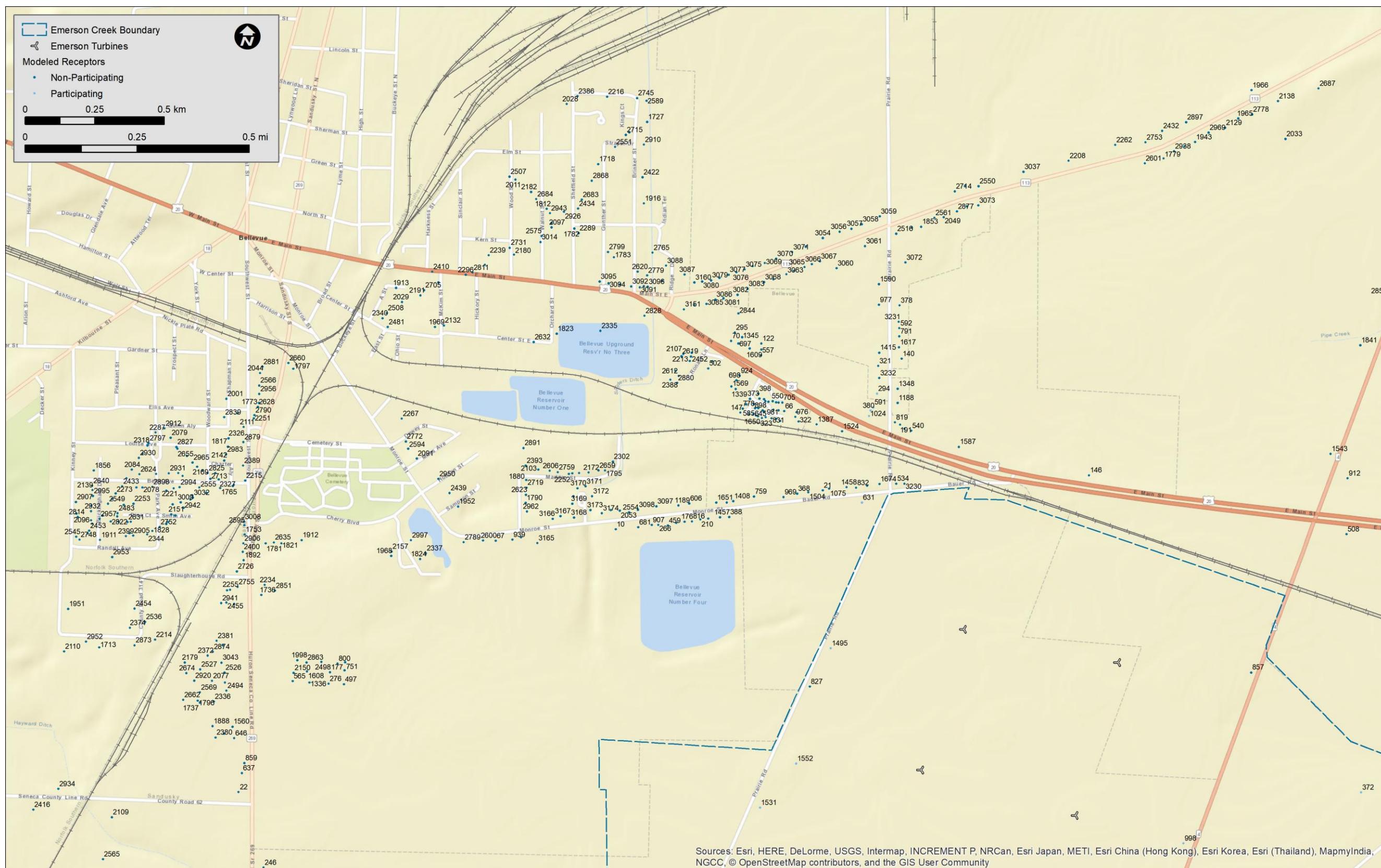
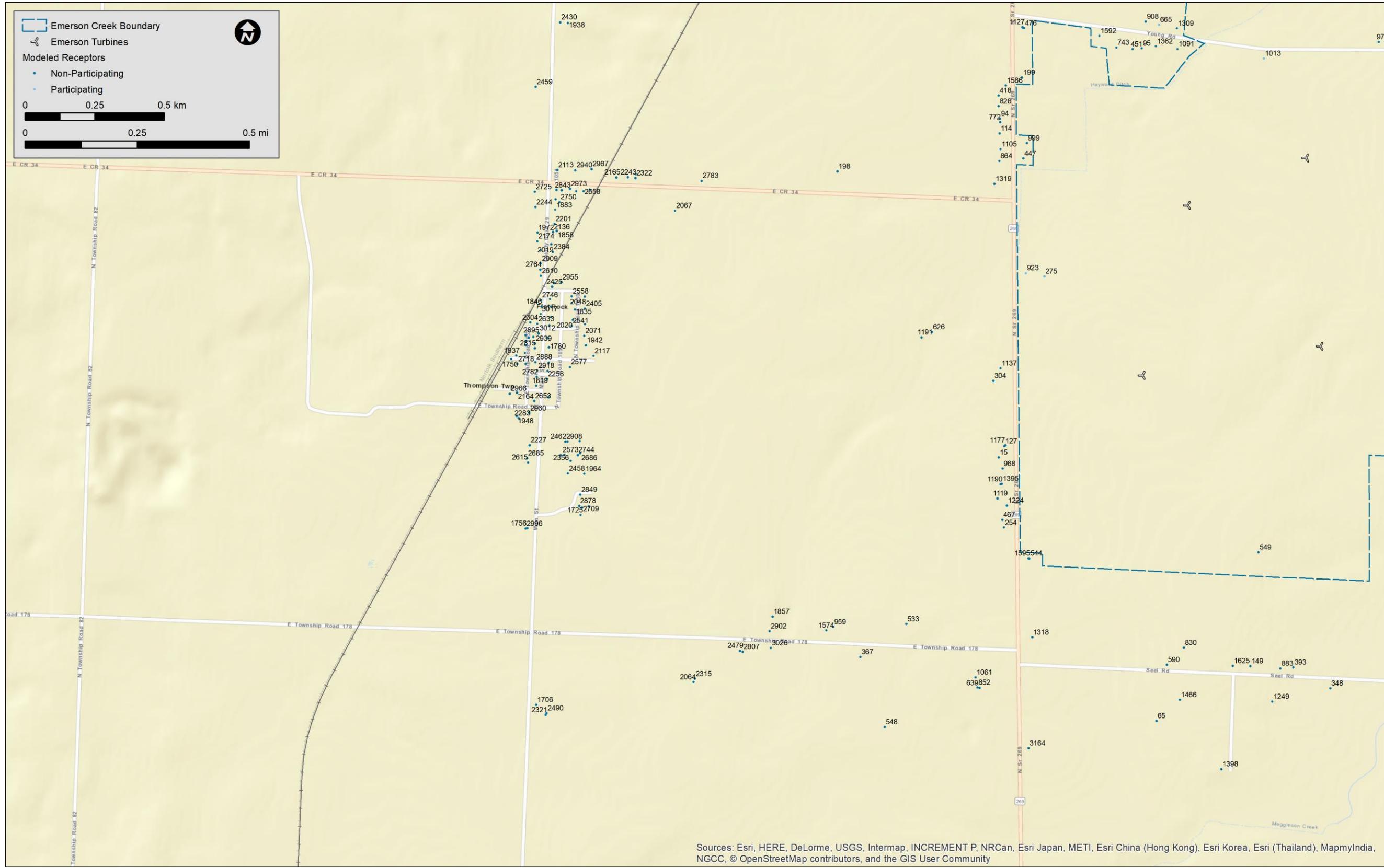
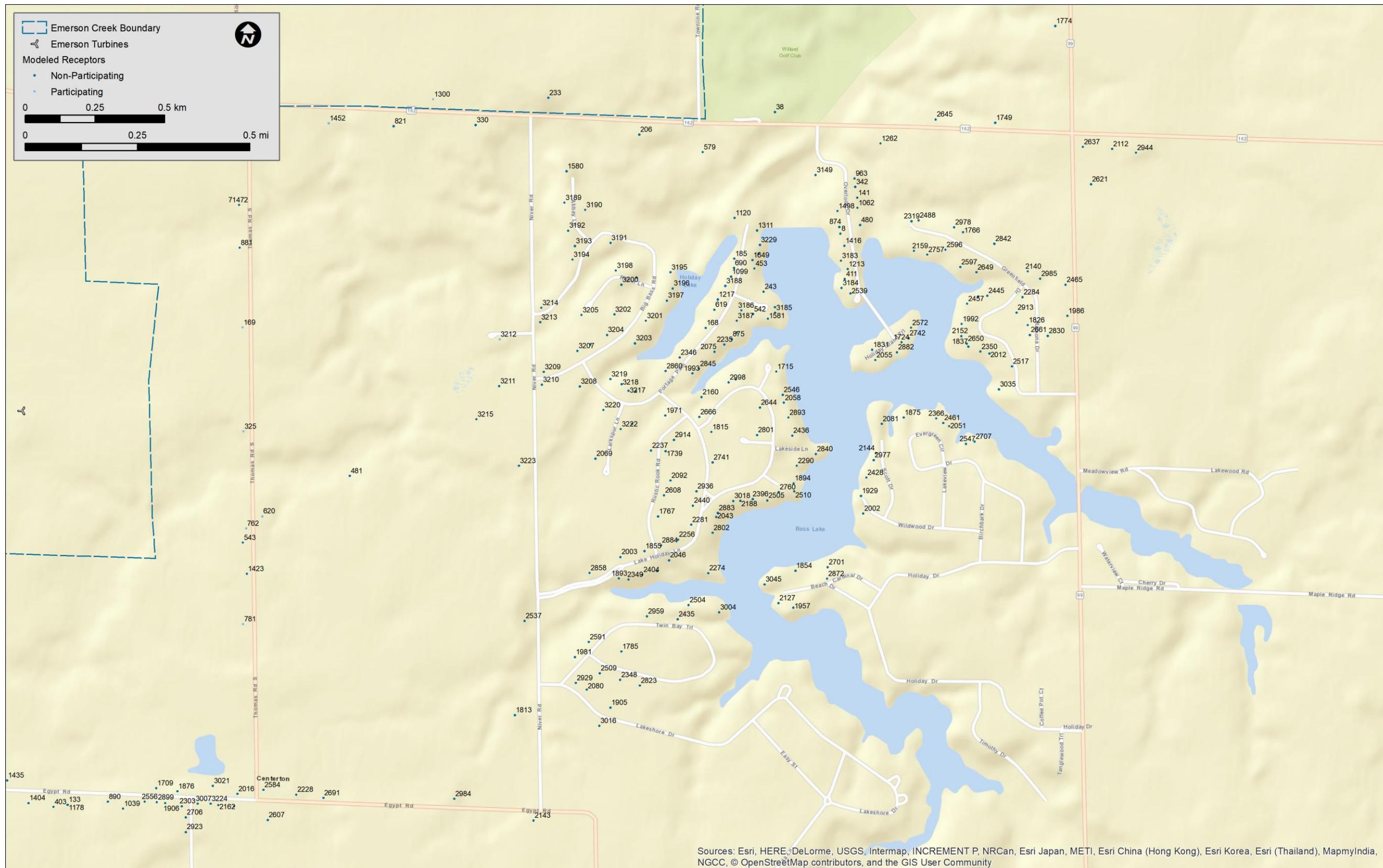


FIGURE 63: MODELED RECEPTOR MAP (BELLEVUE AREA)





**FIGURE 65: MODELED RECEPTOR MAP (HOLIDAY LAKE AREA)**



55 Railroad Row  
White River Junction, VT 05001  
802.295.4999  
[www.rsginc.com](http://www.rsginc.com)



White River Junction &  
Burlington, VT



Arlington, VA



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Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 2

### RSG April 30, 2019 Memorandum Nordex N149 4.8 MW Turbine

Christine M.T. Pirik (0029759)  
(Counsel of Record)  
Terrence O'Donnell (0074213)  
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*Attorneys for Firelands Wind, LLC*



# MEMO

**TO:** Nathan Pedder  
**FROM:** Isaac Old  
**DATE:** April 30, 2019  
**SUBJECT:** Nordex N149 4.8 MW turbine proposed for the Emerson Creek Wind Farm

---

Apex Clean Energy is proposing the Emerson Creek Wind Farm project for an area straddling Erie and Huron County, Ohio. A noise assessment was previously published for this project by RSG (*Emerson Creek Wind – Noise Assessment*, January 17, 2019), assuming an 87-turbine array (though only 71 are expected to be constructed). The turbine models assumed for sound propagation modeling were the Nordex N149 4.5 MW (with serrated trailing edges), Siemens Gamesa SG 4.5-145, and Vestas V150 4.2 MW. Nordex has recently released another version of the N149, with an updated generator, allowing an output of 4.8 MW.

To assess the suitability of this turbine for the Emerson Creek Wind Farm project from an acoustical perspective, RSG compared noise emissions data published by Nordex for the N149 4.8 MW (assuming serrated trailing edges) with data for the Nordex N149 4.5 MW (assuming serrated trailing edges) turbine, and found out that the overall and 1/1 octave sound power data are identical. The only difference acoustically, is that the N149 4.8 MW turbine currently has fewer Noise Reduced Operations (NRO) modes. However, the January 2019 modeling performed by RSG for the Emerson Creek project with the N149 4.5 MW turbines indicated that no noise modes are necessary to meet applicable sound level criteria. As a result, this difference will not influence sound propagation modeling results, and the conclusions for the Nordex N149 4.5 MW turbine are applicable to the Nordex N149 4.8 MW.

Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 3

### RSG June 24, 2019 Memorandum Nordex N149 5.5 and 5.7 MW Turbines

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[wvorys@dickinsonwright.com](mailto:wvorys@dickinsonwright.com)  
*Attorneys for Firelands Wind, LLC*



# MEMO

**TO:** Nathan Pedder  
**FROM:** Eddie Duncan, INCE Bd. Cert.  
**DATE:** June 24, 2019  
**SUBJECT:** Nordex N149 5.5 & 5.7 MW turbines proposed for the Emerson Creek Wind Farm

---

Apex Clean Energy is proposing the Emerson Creek Wind Farm project for an area straddling Erie and Huron County, Ohio. A noise assessment was previously published for this project by RSG (*Emerson Creek Wind – Noise Assessment*, January 17, 2019), assuming an 87-turbine array (though only 71 are expected to be constructed). The turbine models assumed for sound propagation modeling were the Nordex N149 4.5 MW (with serrated trailing edges), Siemens Gamesa SG 4.5-145, and Vestas V150 4.2 MW. Nordex has recently released other versions of the N149, with an updated generator, allowing an output of 5.5 and 5.7 MW.

To assess the suitability of this turbine for the Emerson Creek Wind Farm project from an acoustical perspective, RSG compared noise emissions data published by Nordex for the N149 5.5 MW and the N149 5.7 MW (assuming serrated trailing edges) turbines with data for the Nordex N149 4.5 MW (assuming serrated trailing edges) turbine that was modeled in the RSG January 2019 report. Both the 5.5 MW and 5.7 MW models currently have published overall sound power data, but do not have published 1/1 or 1/3 octave band spectral data. The overall sound power level of the 5.5 MW and 5.7 MW models is less than the overall sound power level of the 4.5 MW model, so we would expect the model results of the 5.5 MW and 5.7 MW models to be less than those reported for the 4.5 MW model in the RSG January 2019 report. However, due to the lack of spectral data for the 5.5 MW and 5.7 MW models, we cannot confirm that at this time, since sound attenuation varies by frequency. Due to the increased turbine output of 5.5 MW and 5.7 MW instead of 4.5 MW, fewer turbines would need to be installed, reducing overall noise impacts.

RSG will perform additional analysis of sound emissions from the Nordex N149 5.5 MW and 5.7 MW models when more comprehensive data is available. In advance of this analysis, given that the overall sound power level of the 5.5 MW and 5.7 MW models is less than the 4.5 MW model and that fewer turbines will need to be installed, we expect the N149 5.5 MW and 5.7 MW turbines to result in lower sound levels than those already reported for Emerson Creek for the N149 4.5 MW turbine.

Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 4

### Product Review Documentation Package

by Nordex  
**March 29, 2019**

**CONFIDENTIAL**

Firelands Wind, LLC has requested confidential treatment of these documents in accordance with OAC Rule 4906-2-21.

These documents contain confidential trade secret information and, as such, are entitled to confidential treatment under state and/or federal statutes and regulations.

The redacted versions have been filed with the OPSB.

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*Attorneys for Firelands Wind, LLC*

Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 5

### Technical description Wind turbine class Nordex Delta4000 N149/4.0-4.5

April 10, 2019

## CONFIDENTIAL

Firelands Wind, LLC has requested confidential treatment of these documents in accordance with OAC Rule 4906-2-21.

These documents contain confidential trade secret information and, as such, are entitled to confidential treatment under state and/or federal statutes and regulations.

The redacted versions have been filed with the OPSB.

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Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 6

### Customer Engagement Package Vestas V150-5.6 MW

October 24, 2018

**CONFIDENTIAL**

Firelands Wind, LLC has requested confidential treatment of these documents in accordance with OAC Rule 4906-2-21.

These documents contain confidential trade secret information and, as such, are entitled to confidential treatment under state and/or federal statutes and regulations.

The redacted versions have been filed with the OPSB.

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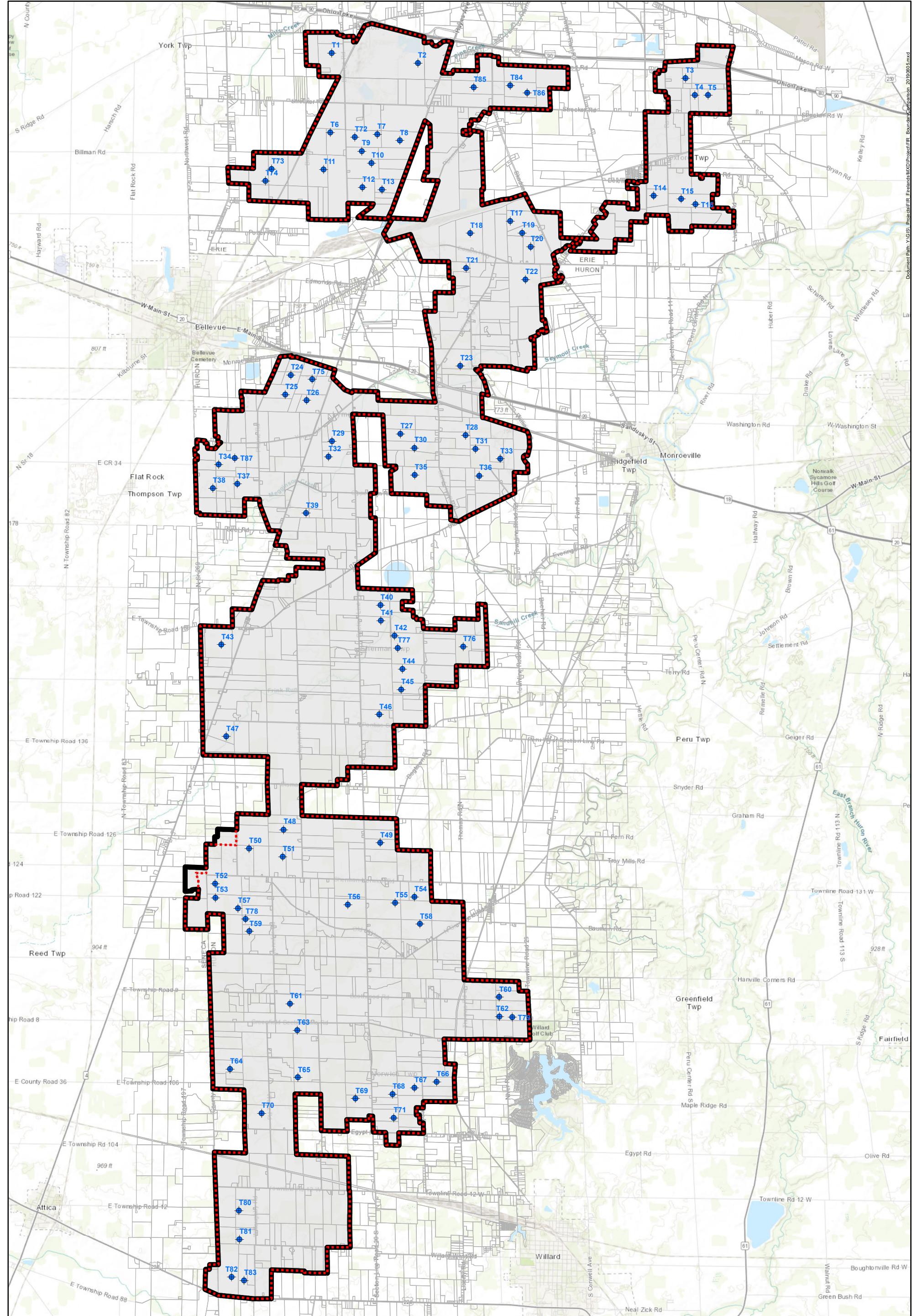
Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## Attachment 7

### Boundary Comparison

**June 5, 2019**

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*Attorneys for Firelands Wind, LLC*



# Emerson Creek Wind

- Proposed Turbine Location
- Parcel Boundary
- Current Project Boundary
- Old Project Boundary

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Projection: Lambert Conformal Conic

Datum: NAD 1983 StatePlane Ohio North FIPS 3401

False Easting: 1,968,500.0000

False Northing: 1,968,500.0000

Units: Foot US

**CONFIDENTIAL**

**APEX**  
CLEAN ENERGY

Date: 6/5/2013  
Author: JF

Firelands Wind, LLC  
Case No. 18-1607-EL-BGN  
Third Supplement to Application  
July 10, 2019

## **Attachment 8**

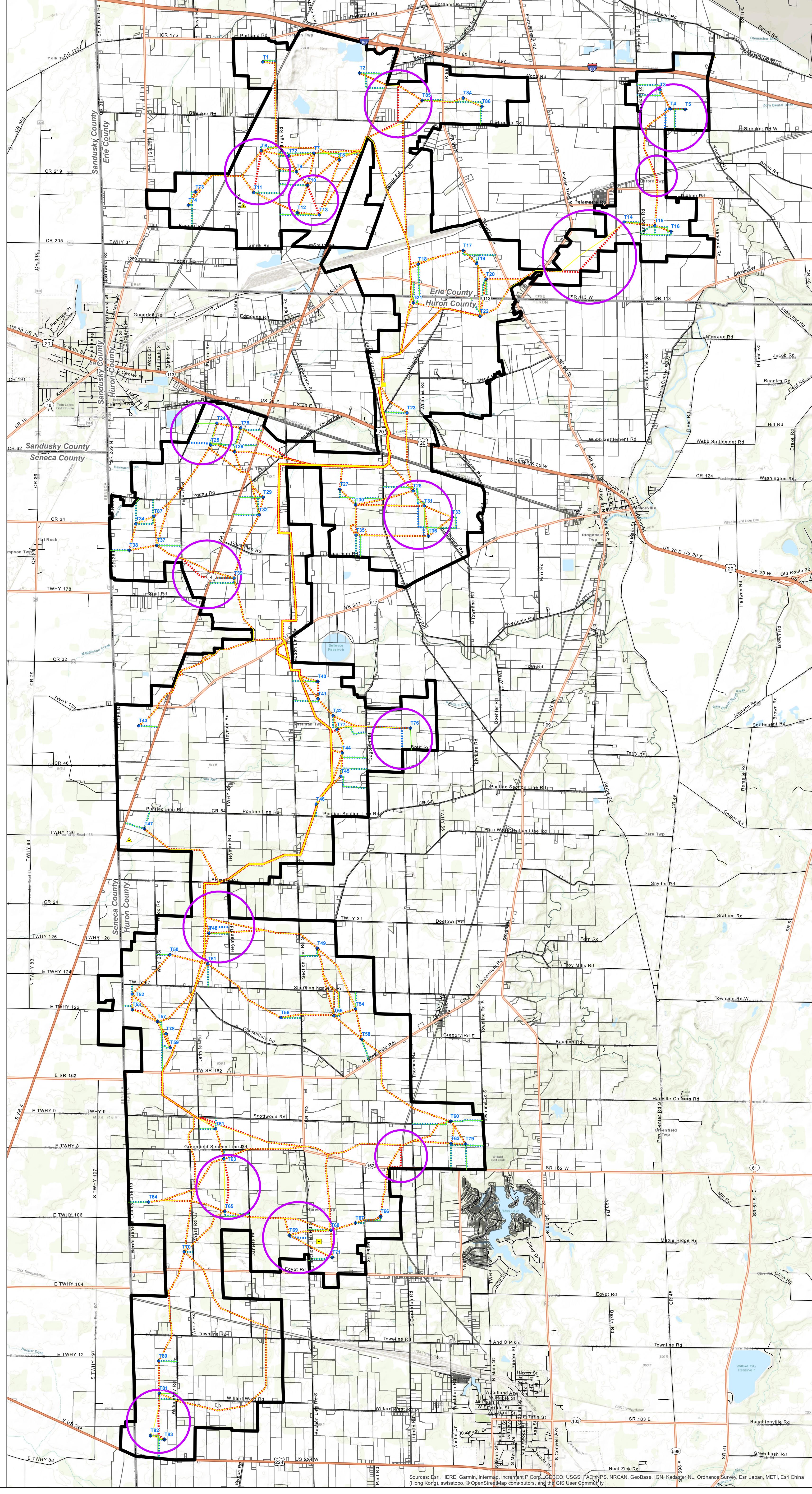
### **Supplement Map**

### **July 10, 2019**

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[wvorys@dickinsonwright.com](mailto:wvorys@dickinsonwright.com)  
*Attorneys for Firelands Wind, LLC*

# Emerson Creek Wind

- ◆ Proposed Turbine Location (87)
- ▲ Point of Interconnect
- Project Substation
- ▣ PermanentMet, Proposed (1)
- ▲ PwrPerformanceTower, Proposed (2)
- Supplement Underground Collection
- Supplement Private Access Road
- Original Application Underground Collection
- Original Application Private Access Road
- Area with Changes
- Project Boundary



**APEX**  
CLEAN ENERGY

Date: 7/10/2019

Author: GIS

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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**Case No(s). 18-1607-EL-BGN**

Summary: Application - Third Supplement to Application – Updated Wind Turbine Models and Maps electronically filed by Christine M.T. Pirik on behalf of Firelands Wind, LLC