

July 10, 2019

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th 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.

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:

TURBINE MODEL	Listed in Application			Third Supplement Update			
	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 492 feet	145 meters 476 feet	149 meters 489 feet	149 meters 489 feet	149 meters 489 feet	149 meters 489 feet	150 meters 492 feet
Hub Height	105 meters 344 feet	107.5 meters 353 feet	109 meters (358 feet) or 125 meters (410 feet)	109 meters (358 feet) or 125 meters (410 feet)	109 meters (358 feet) or 125 meters (410 feet)	109 meters (358 feet) or 125 meters (410 feet)	105 meters 344 feet
Maximum Total Height	180 meters 591 feet	180 meters 591 feet	183.5 meters (602 feet) or 199.5 meters (655 feet)	183.5 meters (602 feet) or 199.5 meters (655 feet)	183.5 meters (602 feet) or 199.5 meters (655 feet)	183.5 meters (602 feet) or 199.5 meters (655 feet)	180 meters 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

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.

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,

/s/ Christine M.T. Pirik

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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 10th day of July, 2019.

/s/ Christine M.T. Pirik

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July 10, 2019

Attachment 1

Noise Assessment

by RSG
June 25, 2019

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1.0 INTRODUCTION

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.

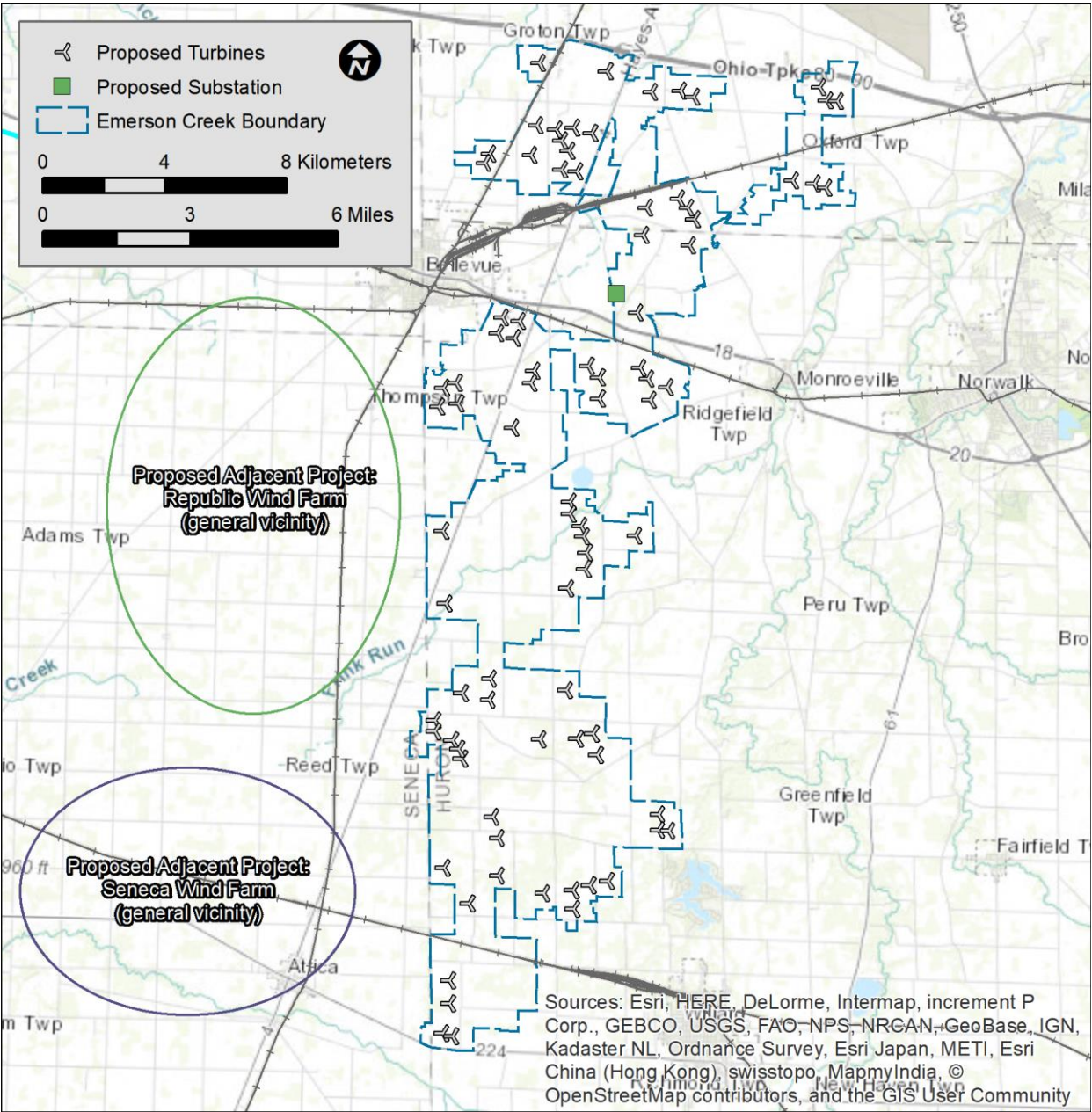


FIGURE 1: PROJECT OVERVIEW MAP

3.0 SOUND LEVEL LIMITS AND REGULATIONS

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 L_{eq} 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).

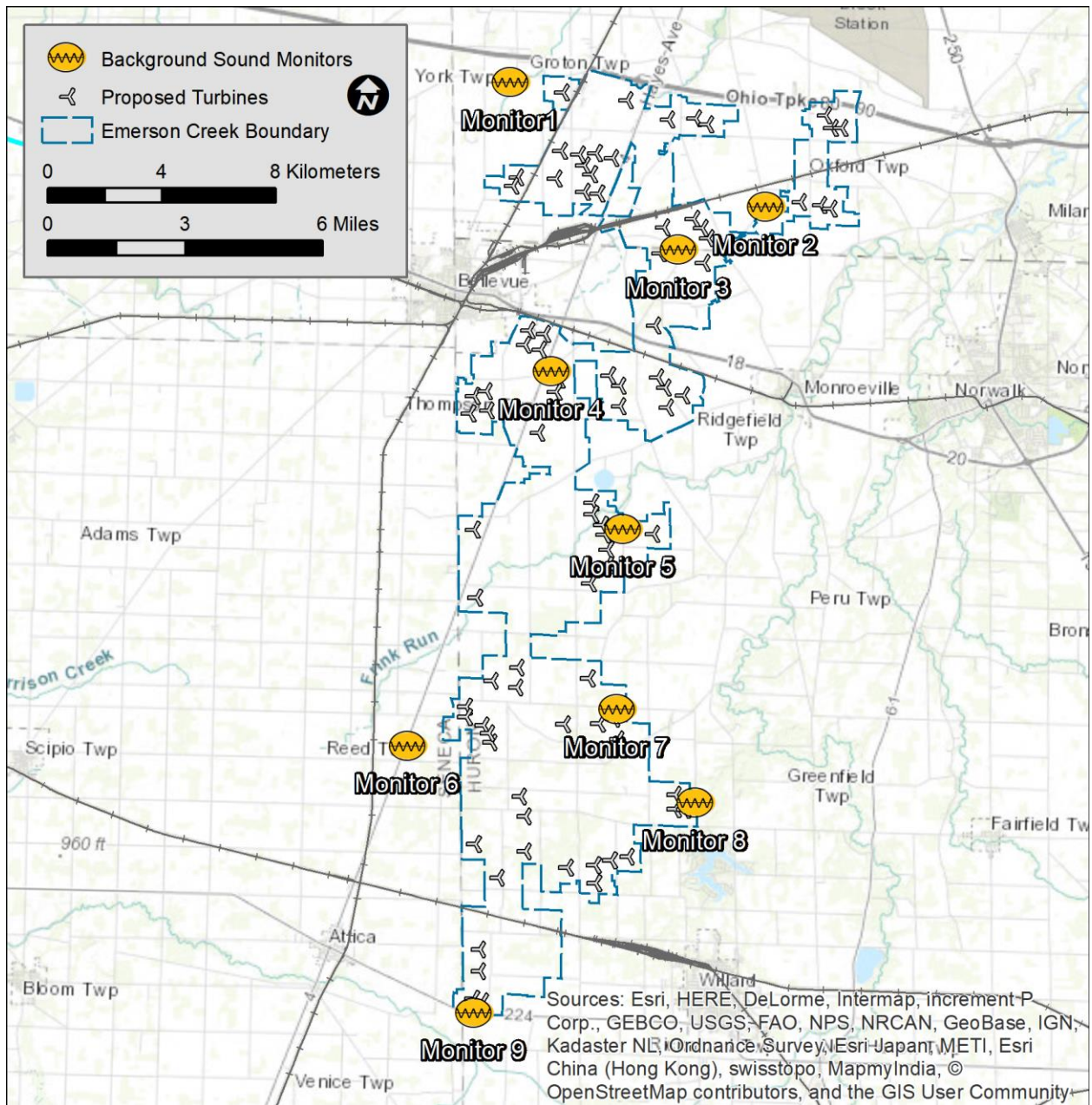


FIGURE 2: MAP OF BACKGROUND SOUND MONITOR LOCATIONS

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)

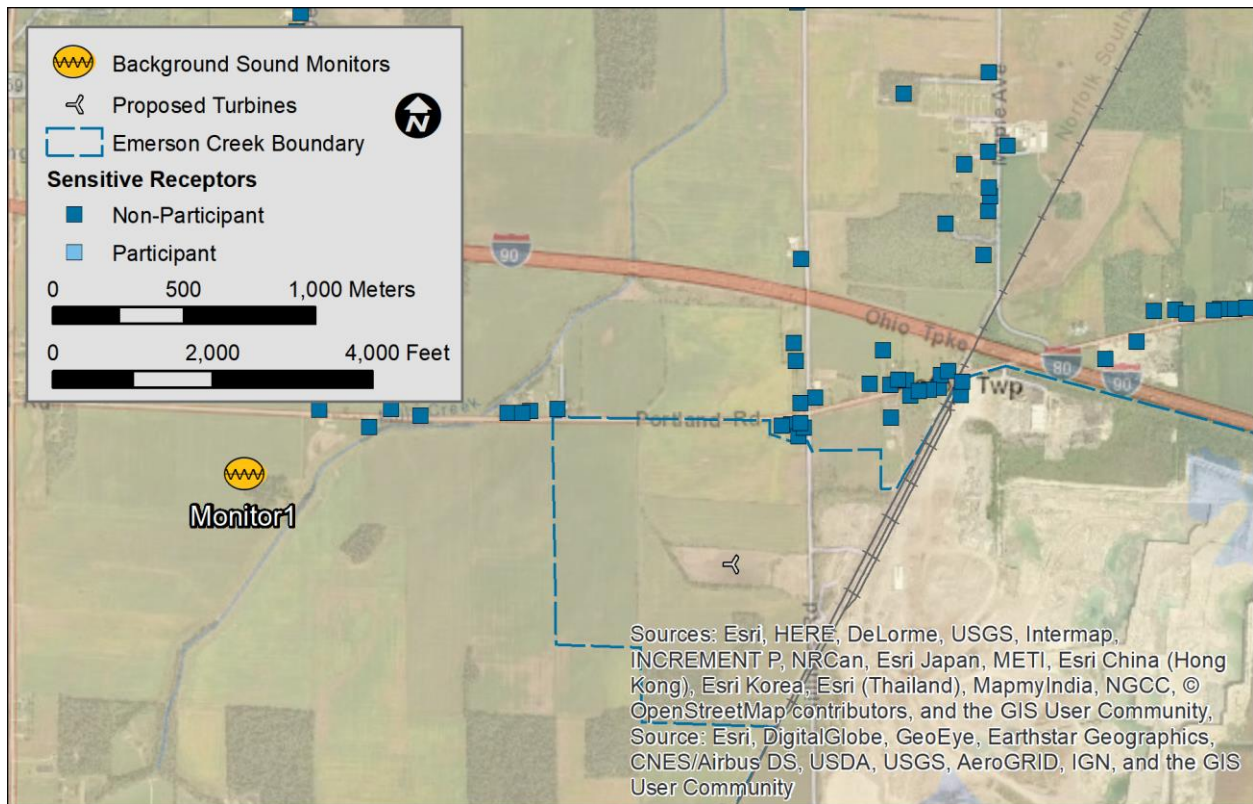


FIGURE 4: MAP OF MONITOR 1

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)

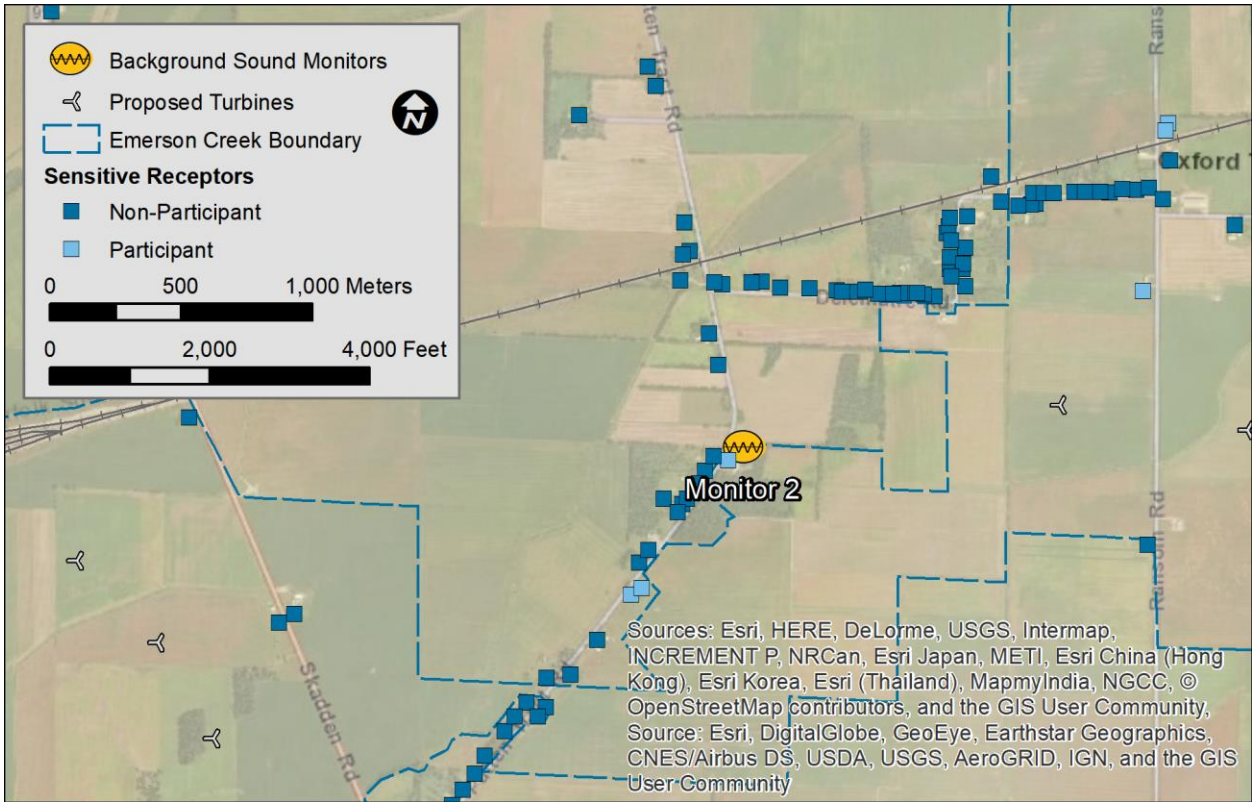


FIGURE 6: MAP OF MONITOR 2

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)

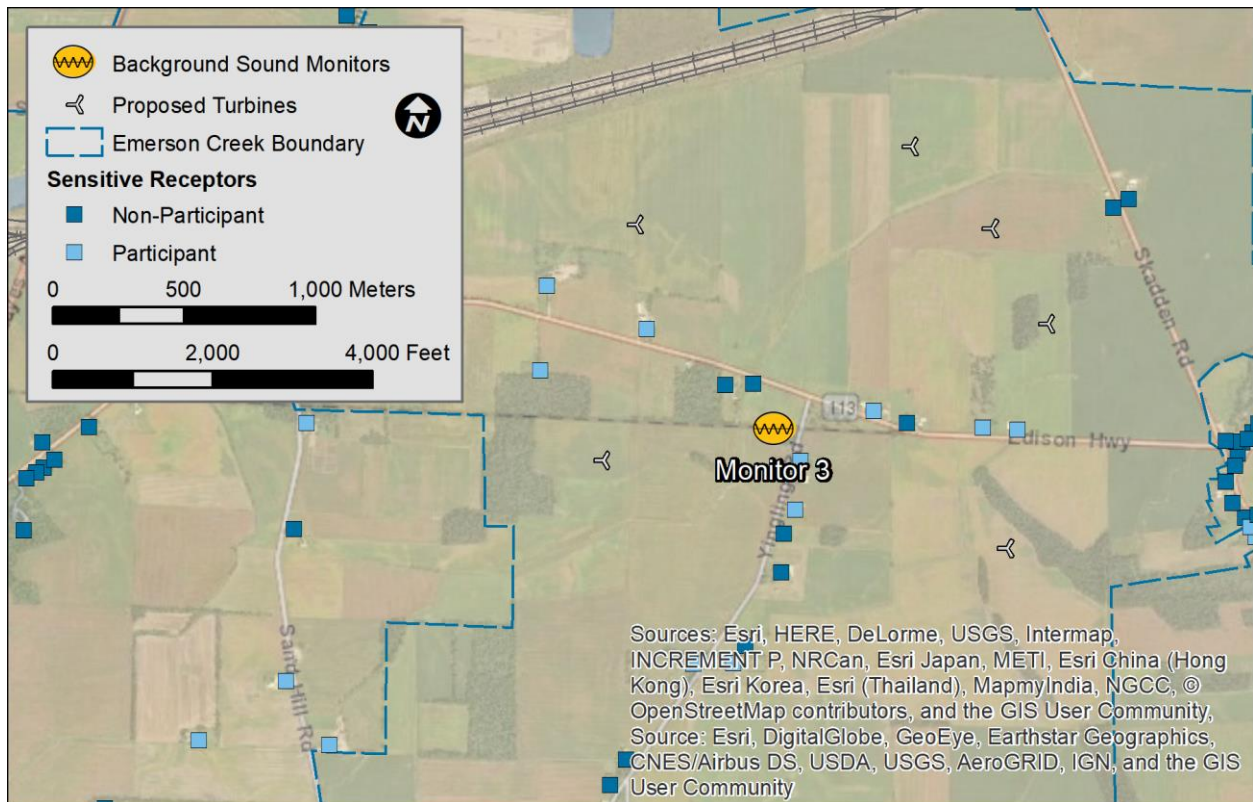


FIGURE 8: MAP OF MONITOR 3

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)

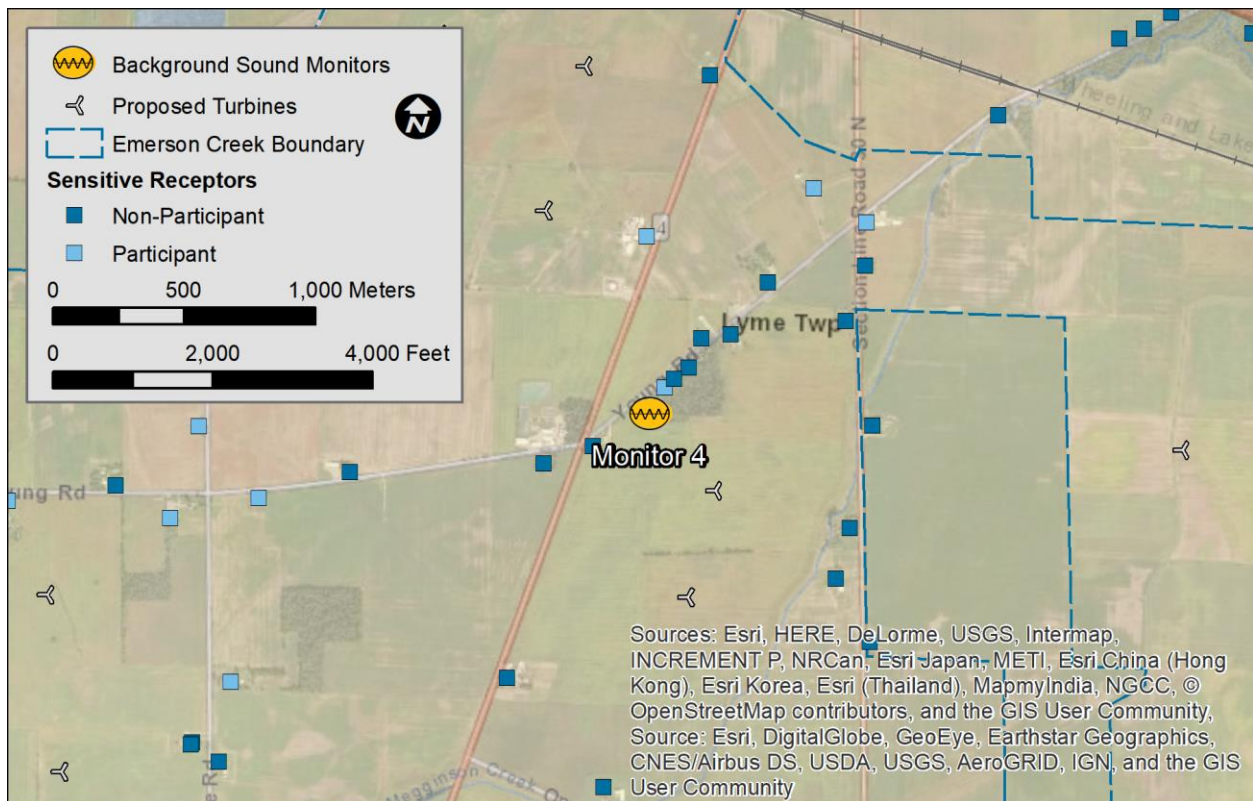


FIGURE 10: MAP OF MONITOR 4

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)

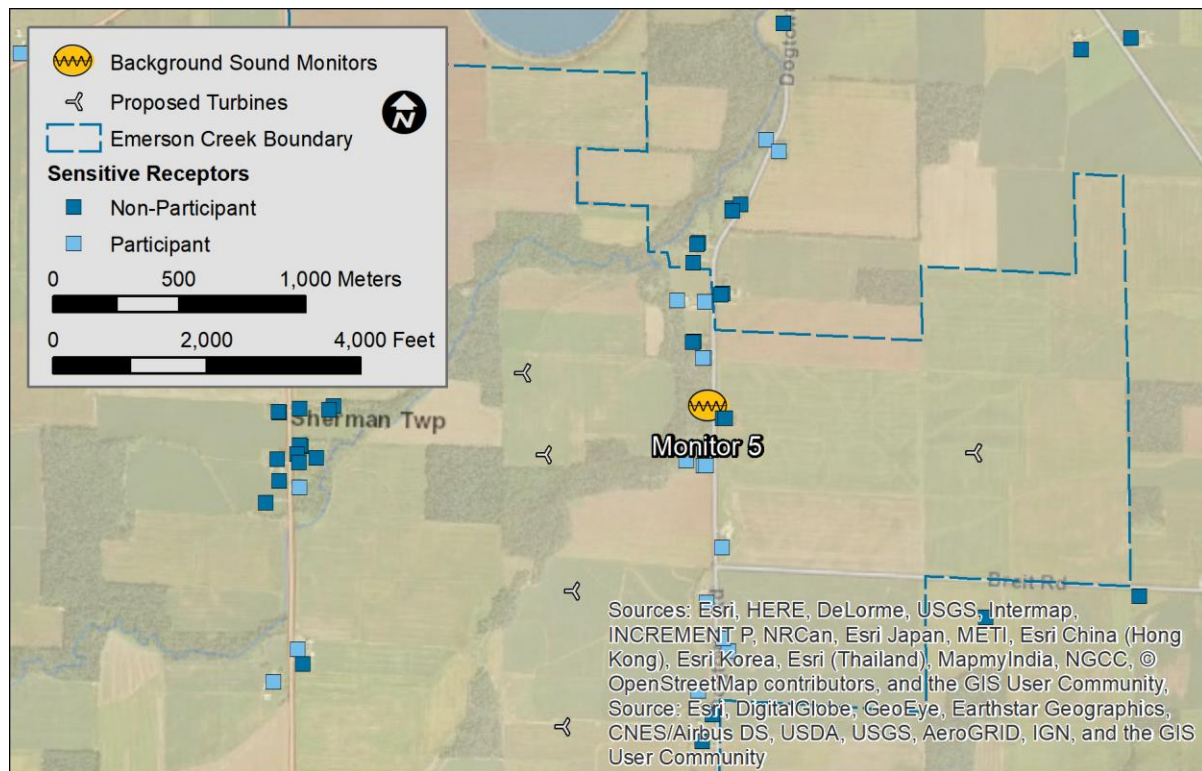


FIGURE 12: MAP OF MONITOR 5

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)

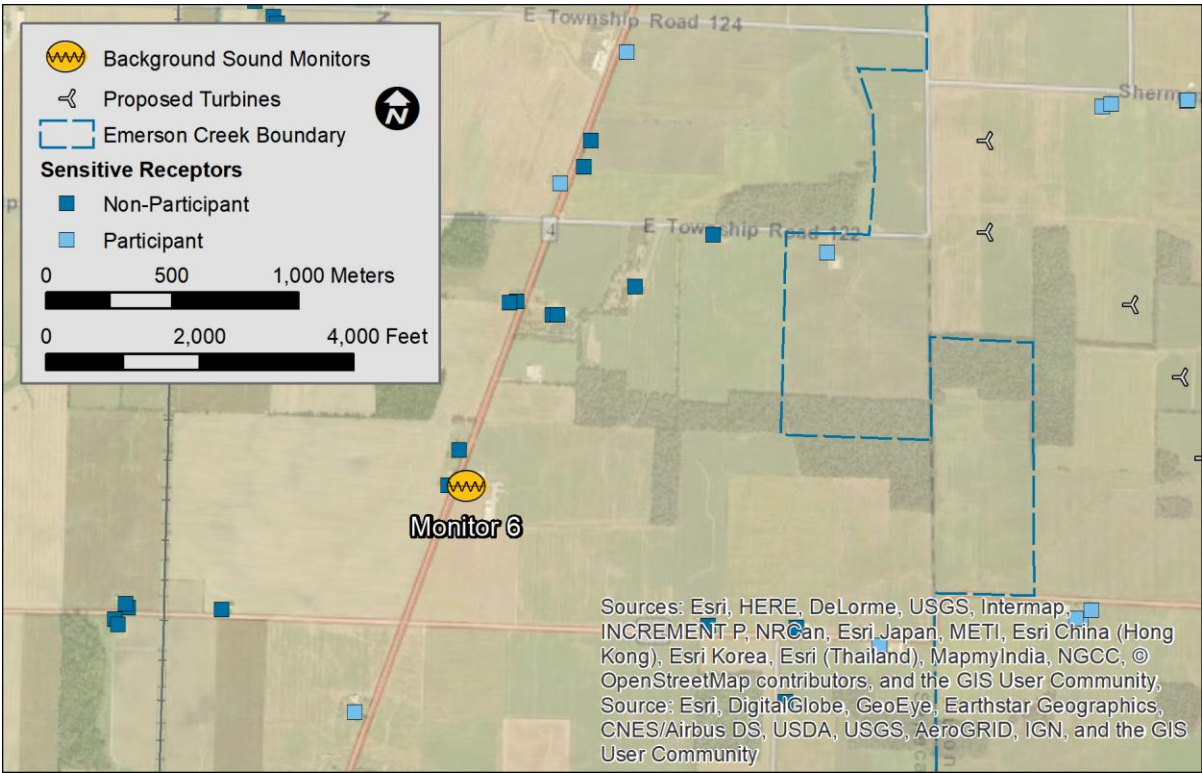


FIGURE 14: MAP OF MONITOR 6

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)

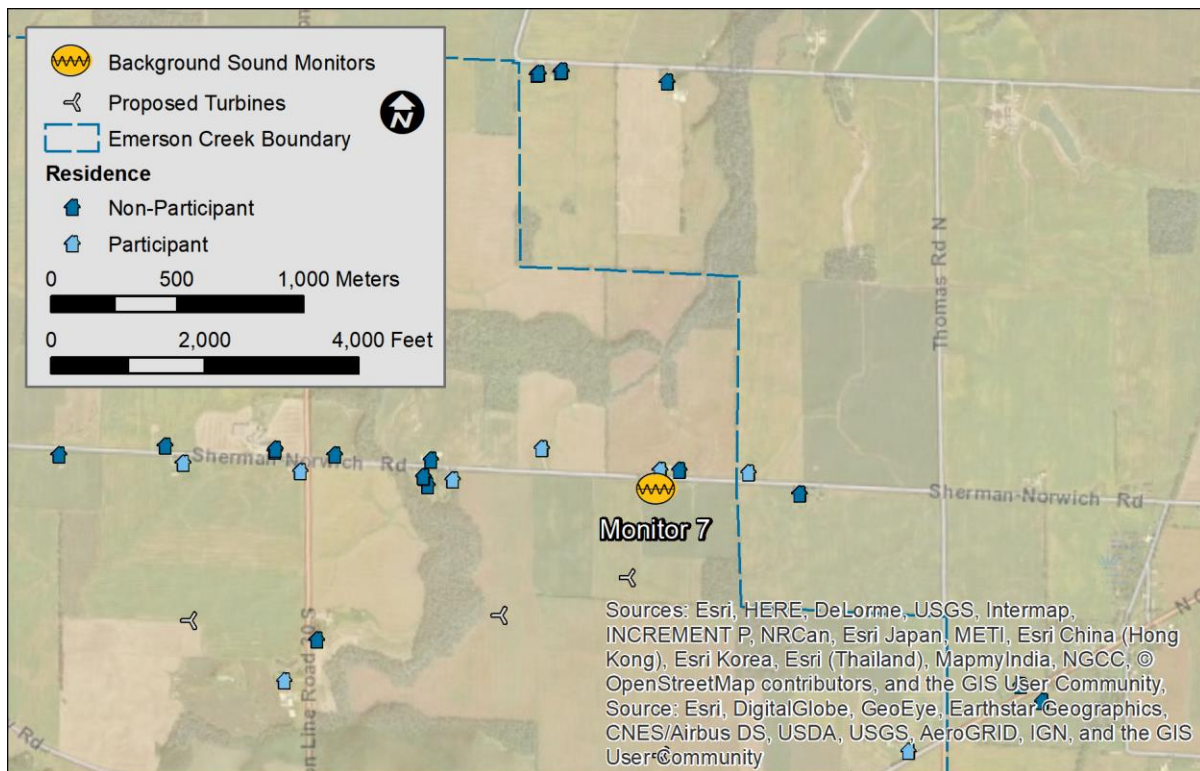


FIGURE 16: MAP OF MONITOR 7

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)

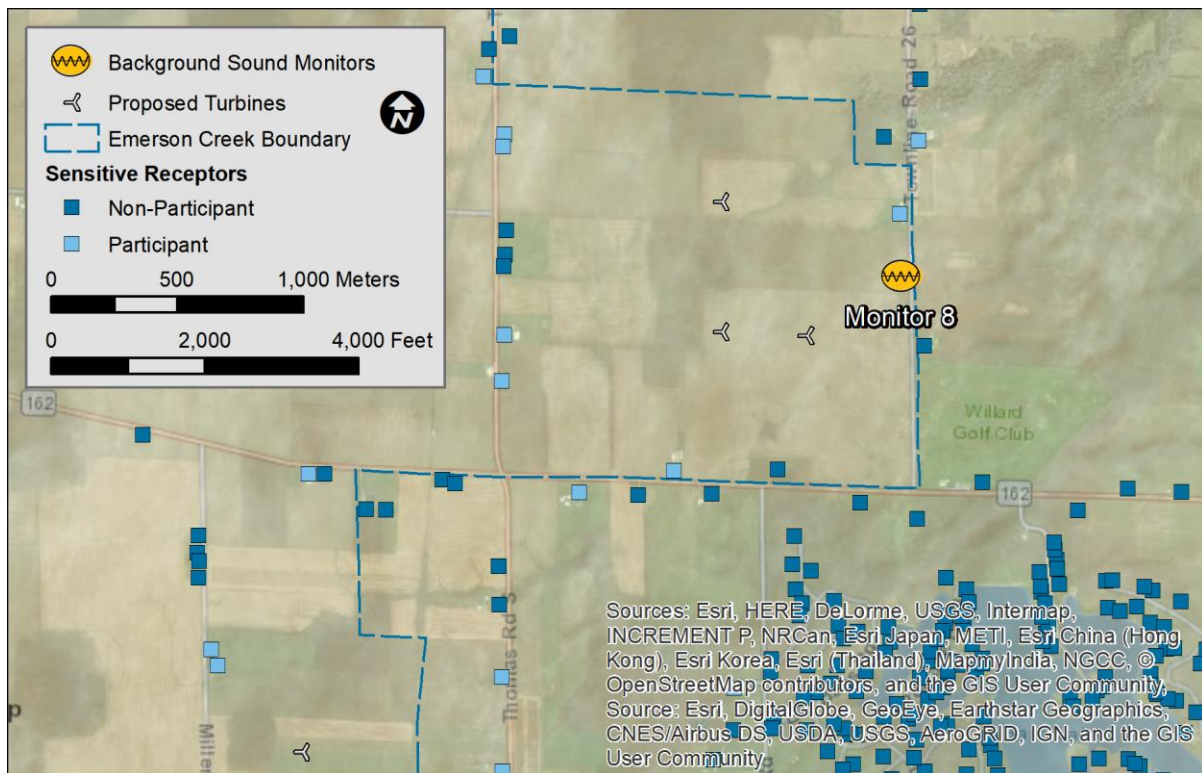


FIGURE 18: MAP OF MONITOR 8



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)

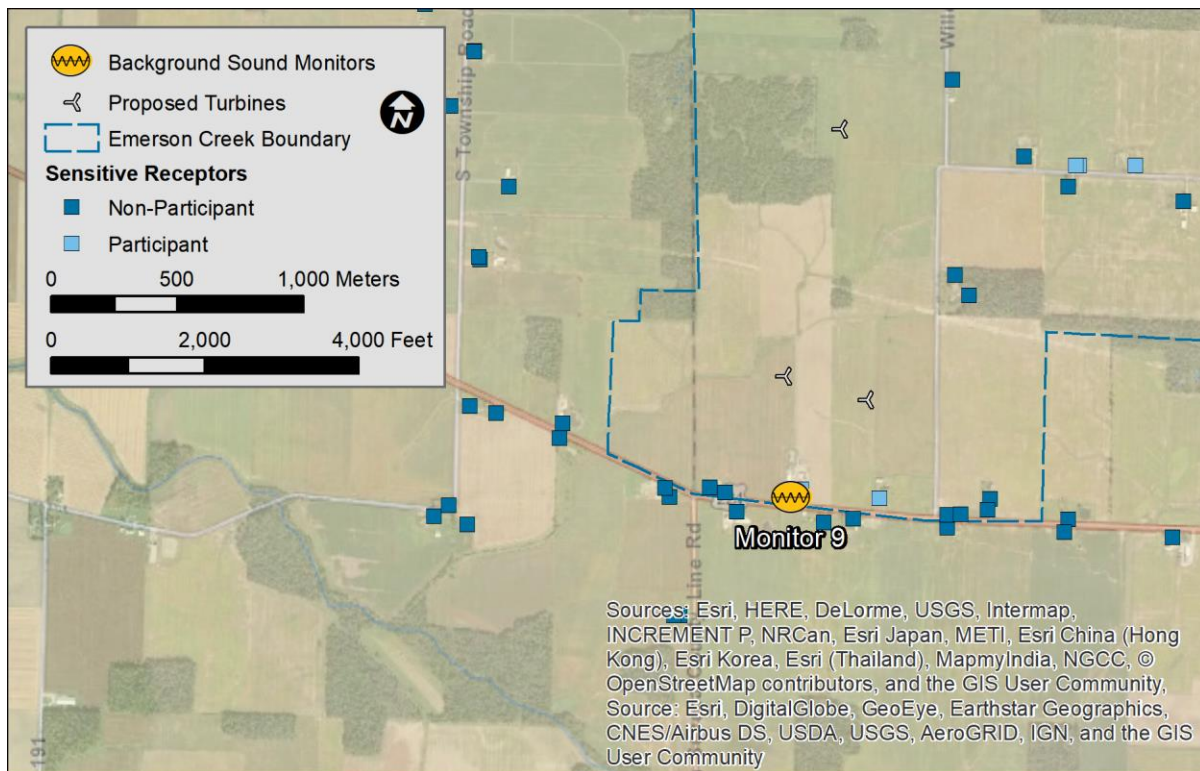


FIGURE 20: MAP OF MONITOR 9

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 10th percentile (L_{10}), median (L_{50}), and lower 10th 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

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 SITE¹

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
Average					48				44			

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

¹ 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.² 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.

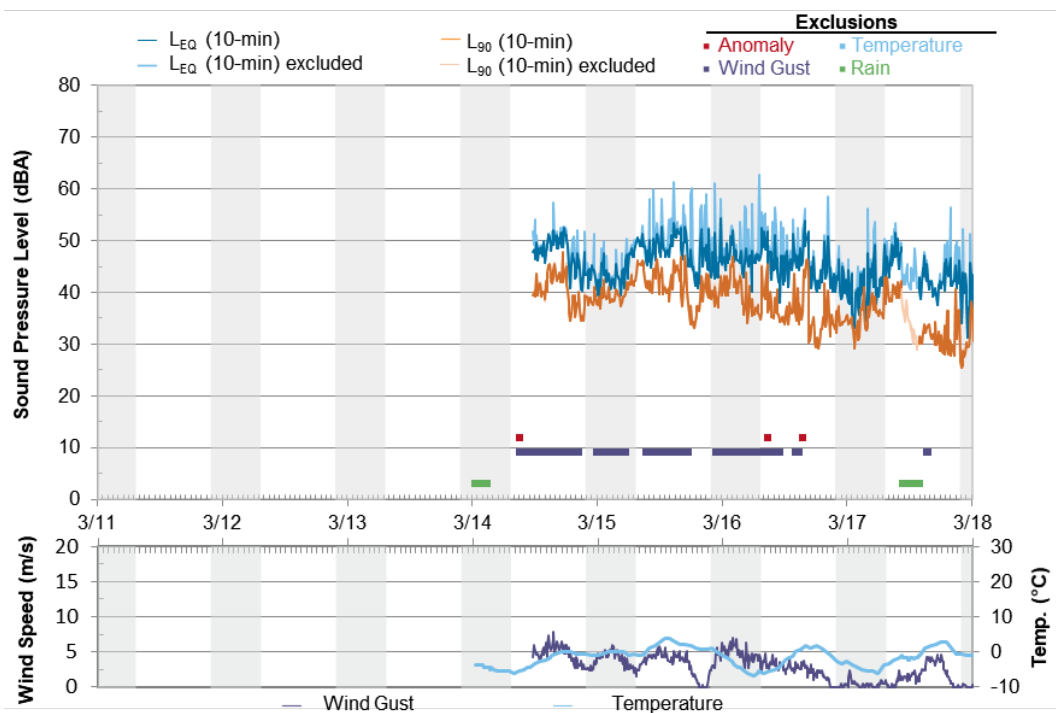


FIGURE 21: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 13 TO MARCH 18

² 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.

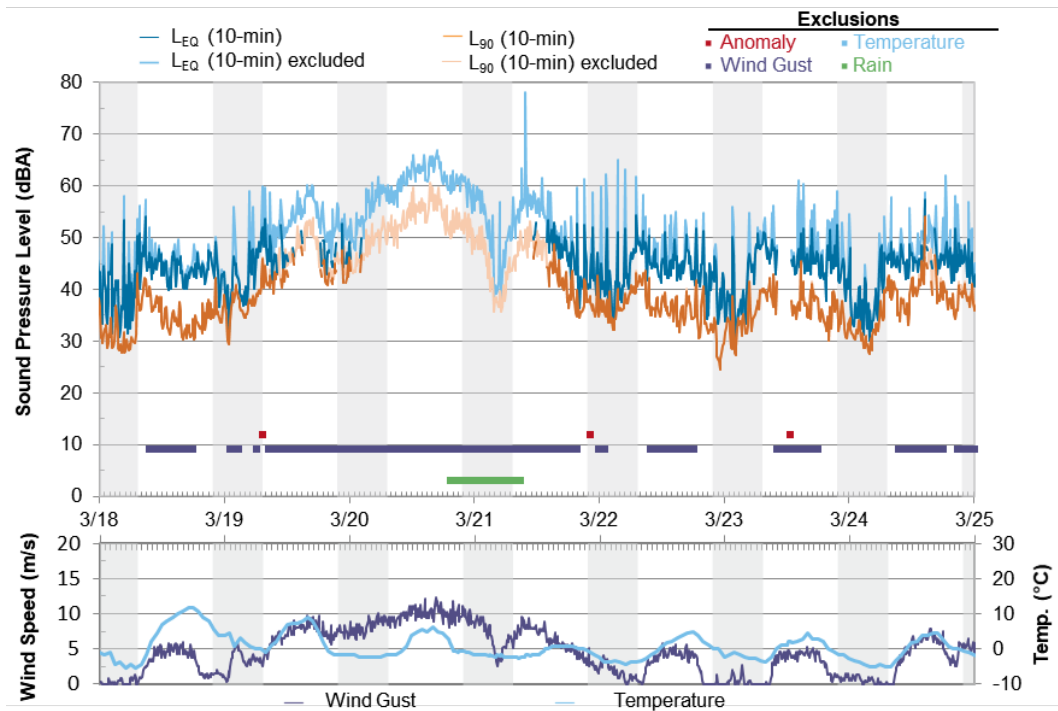


FIGURE 22: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 18 TO MARCH 25

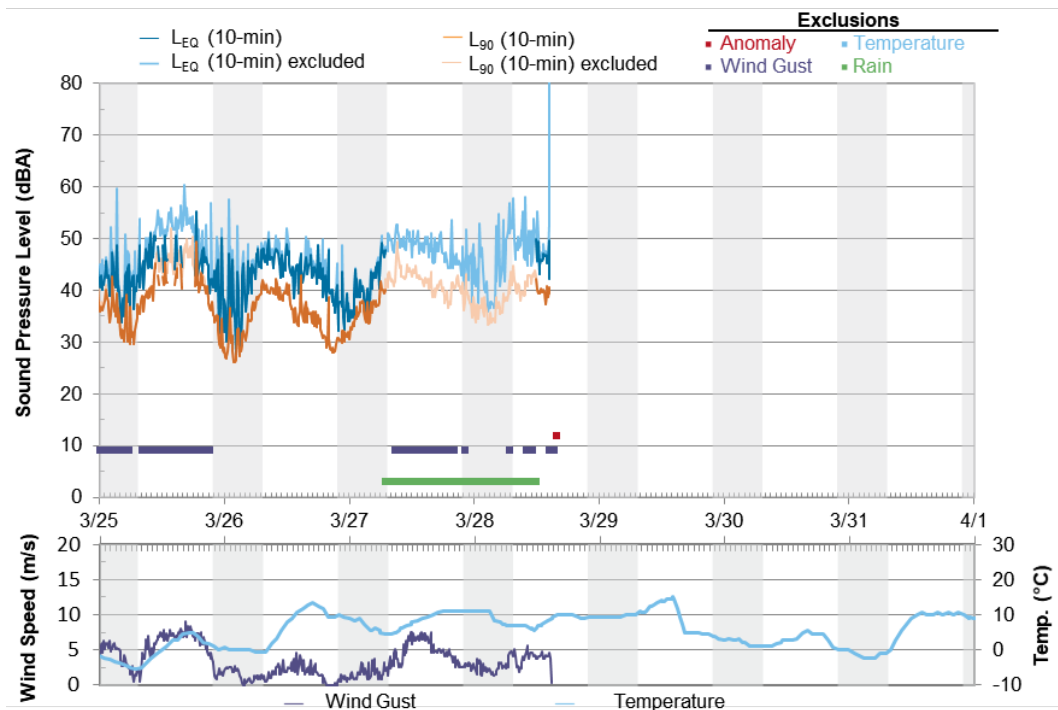


FIGURE 23: SOUND PRESSURE LEVELS OVER TIME - MONITOR 1, MARCH 25 TO MARCH 28



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.

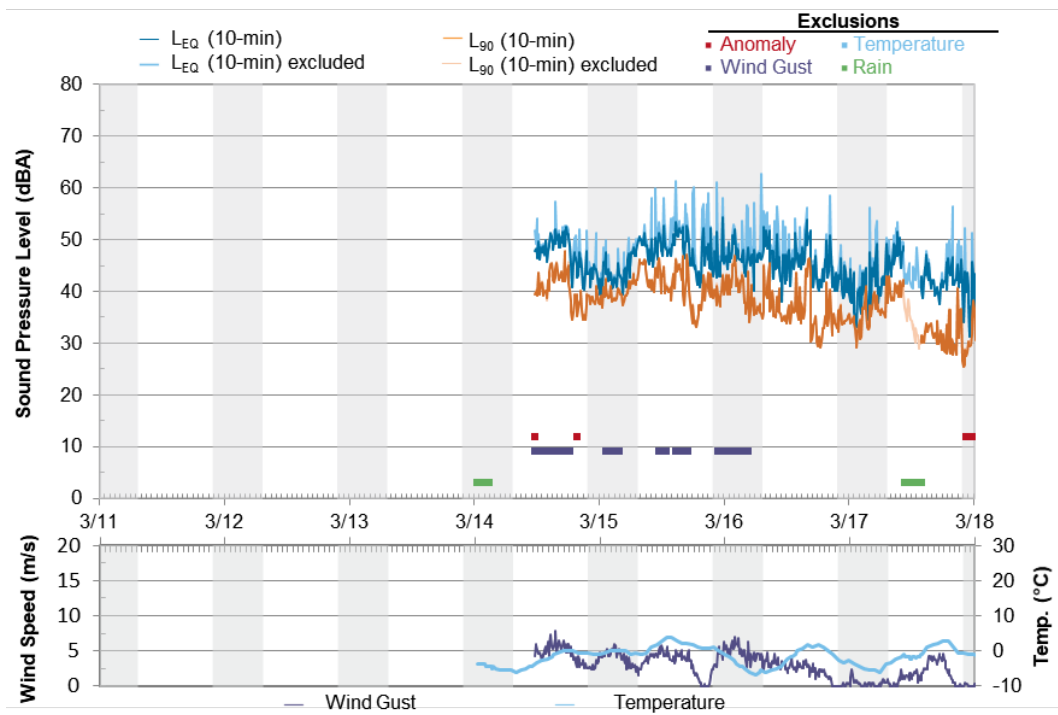


FIGURE 24: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 13 TO MARCH 18

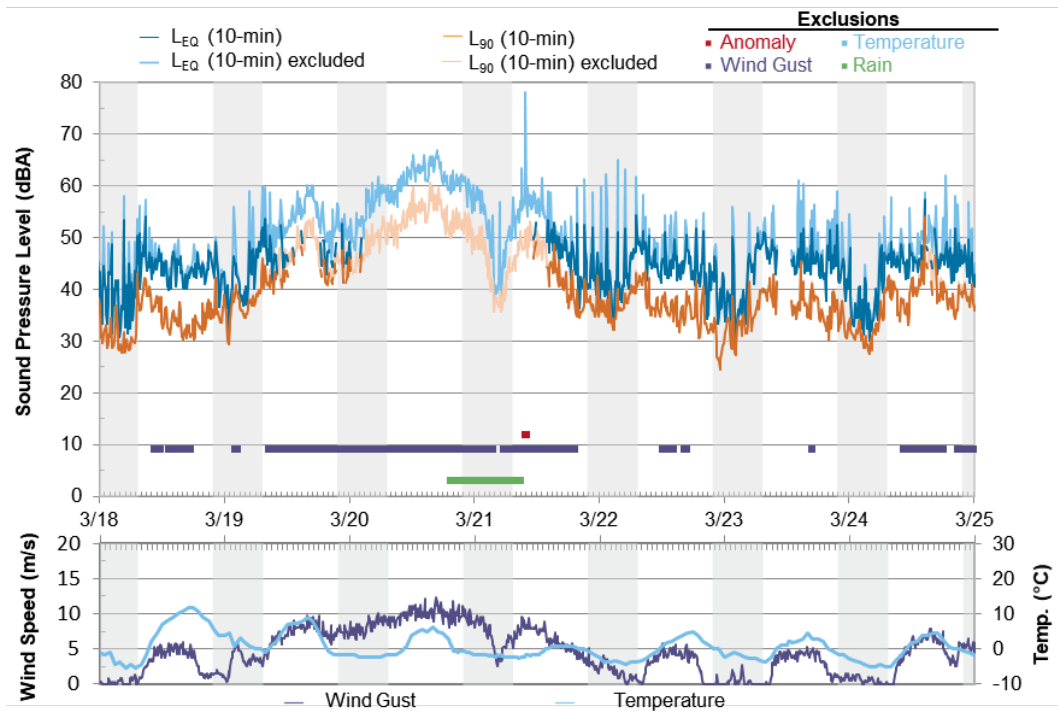


FIGURE 25: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 18 TO MARCH 25

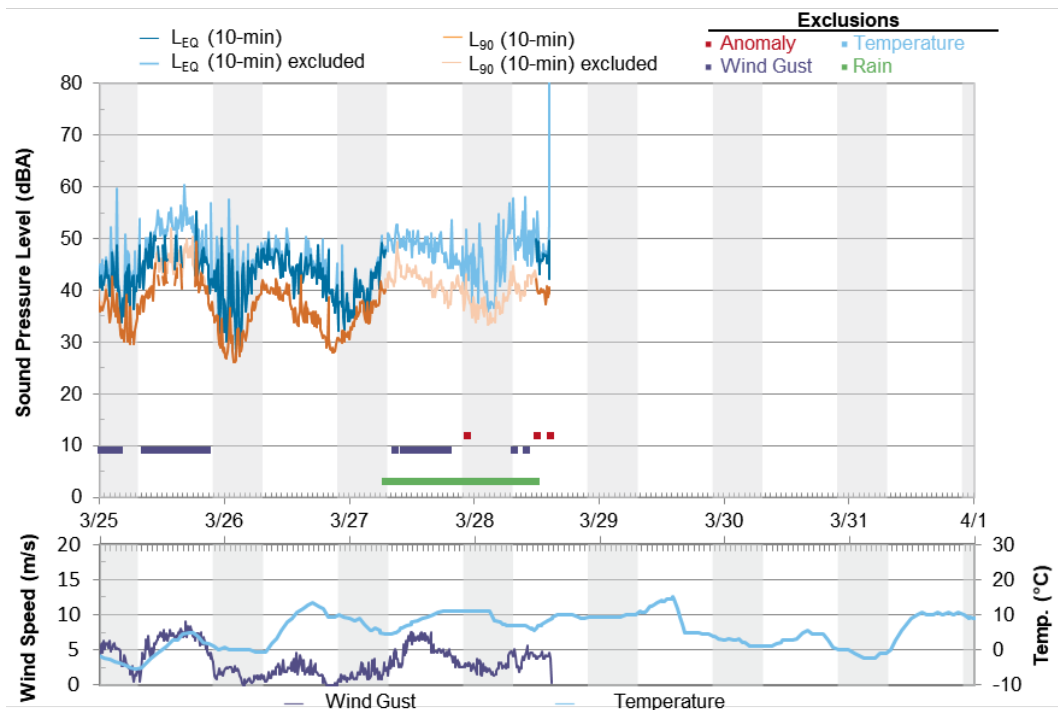


FIGURE 26: SOUND PRESSURE LEVELS OVER TIME - MONITOR 2, MARCH 25 TO MARCH 28



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.

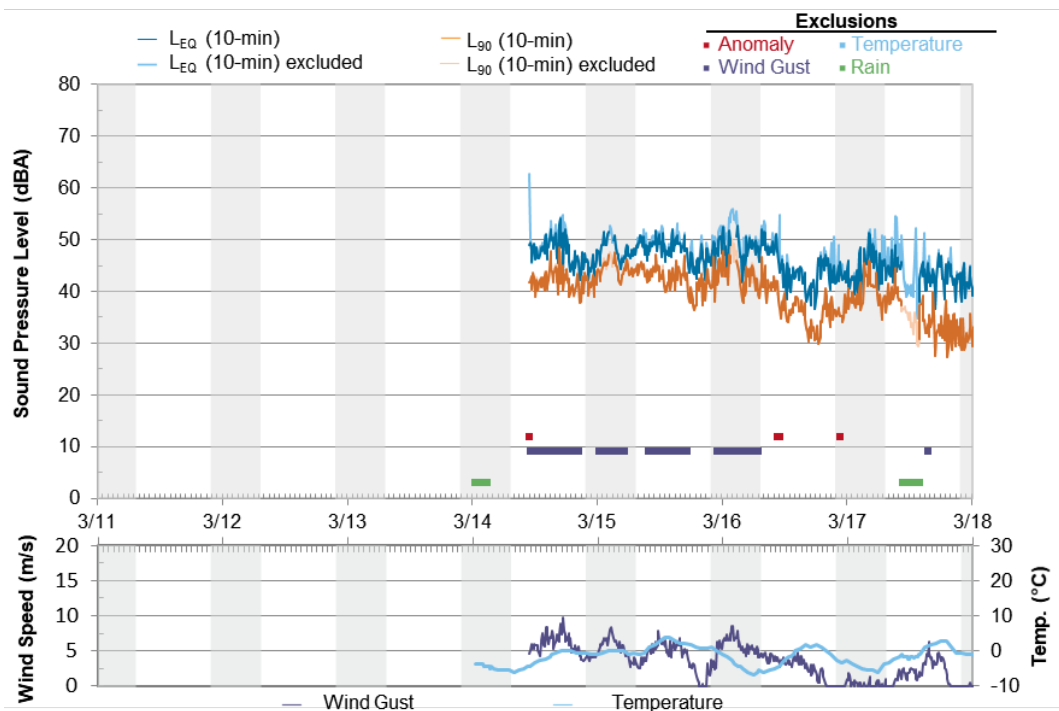


FIGURE 27: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 13 TO MARCH 18

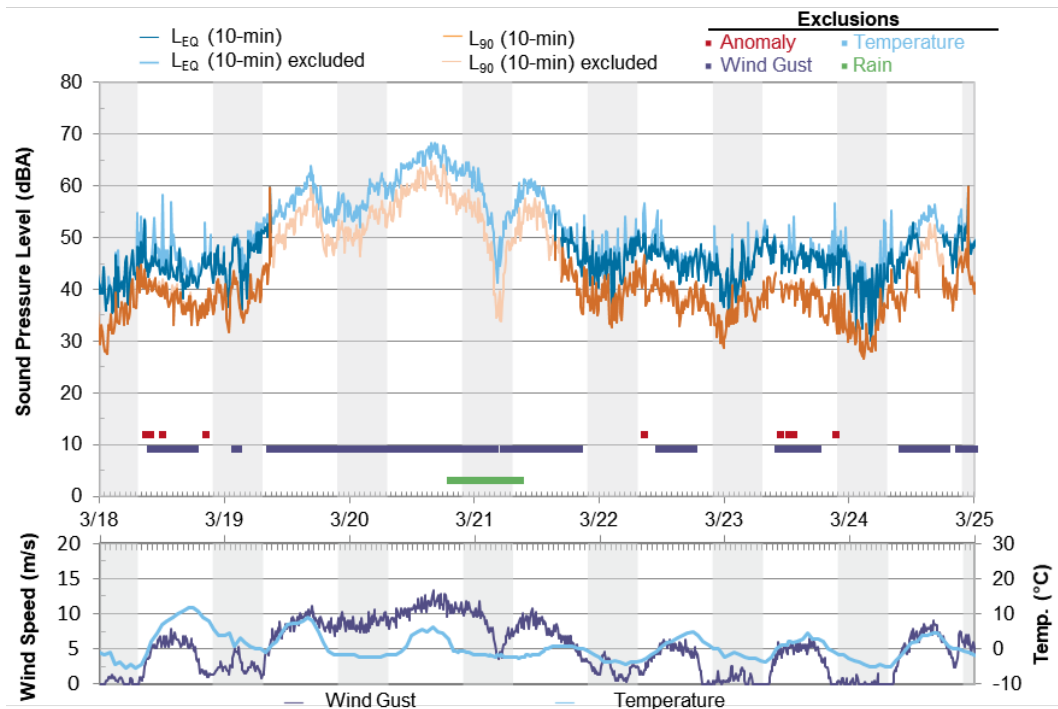


FIGURE 28: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 18 TO MARCH 25

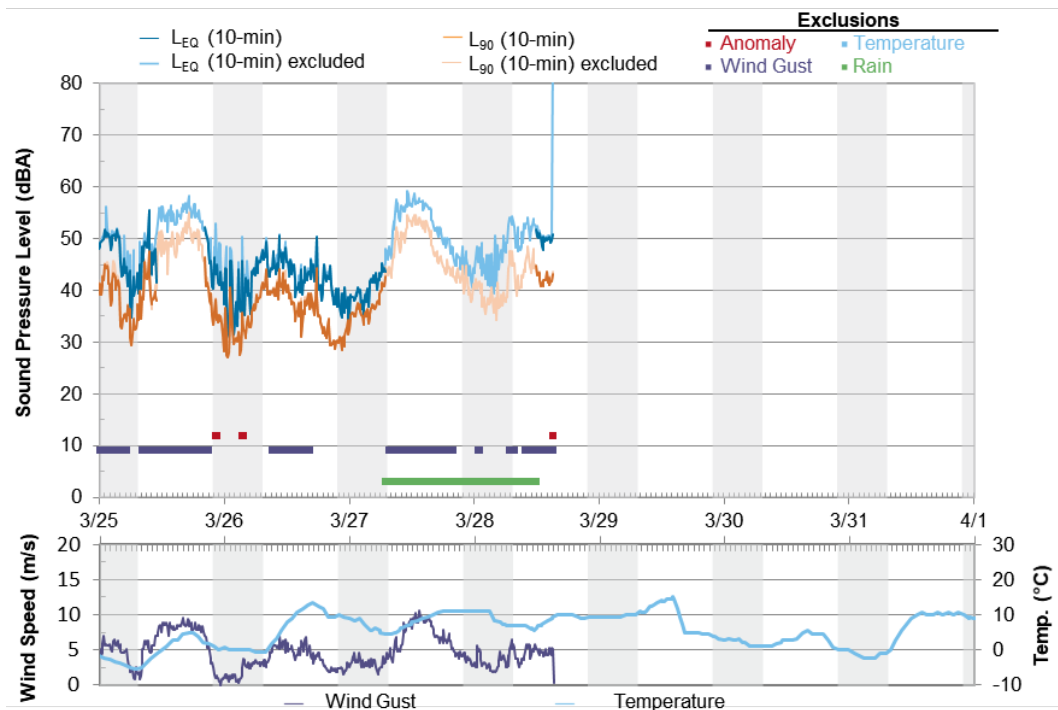


FIGURE 29: SOUND PRESSURE LEVELS OVER TIME - MONITOR 3, MARCH 25 TO MARCH 28



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.

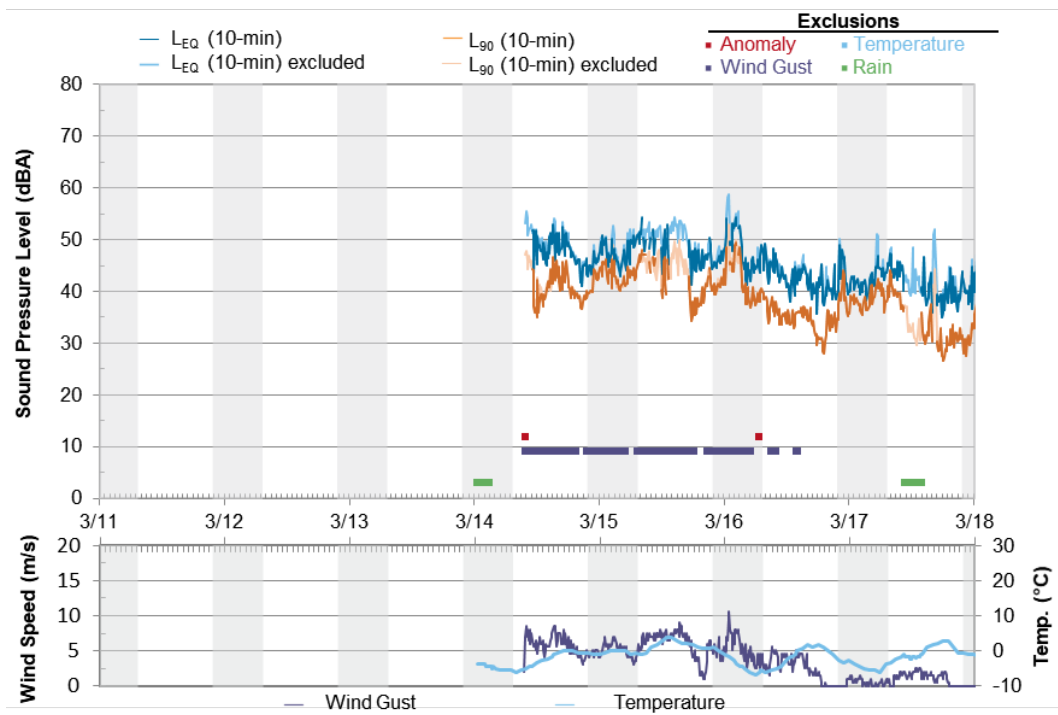


FIGURE 30: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 13 TO MARCH 18

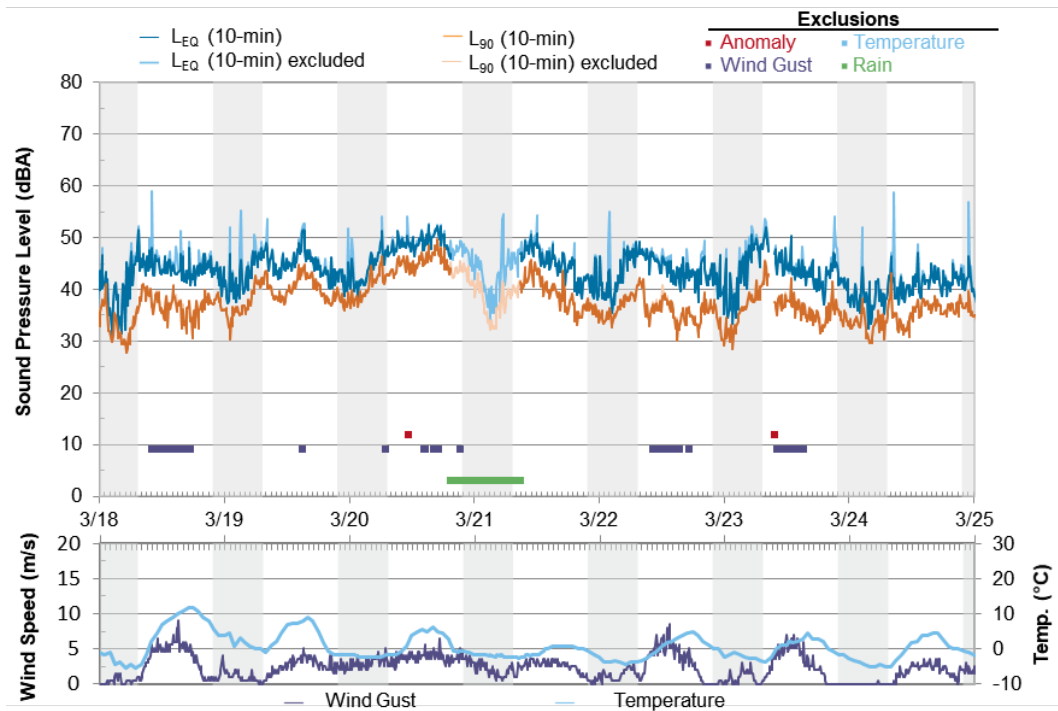


FIGURE 31: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 18 TO MARCH 25

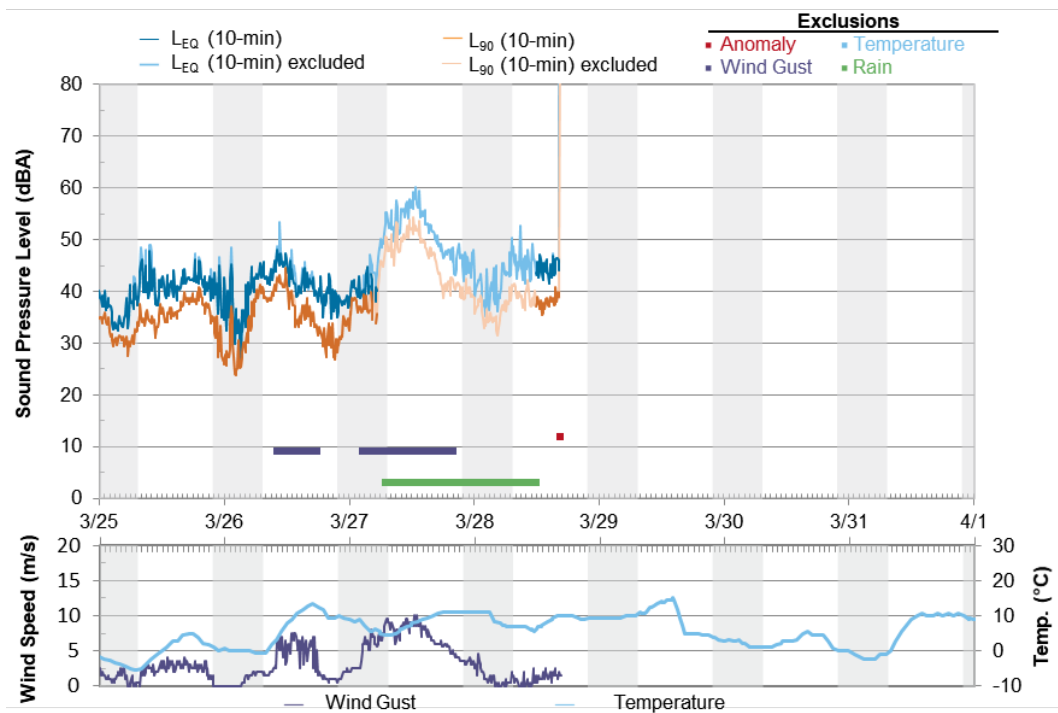


FIGURE 32: SOUND PRESSURE LEVELS OVER TIME - MONITOR 4, MARCH 25 TO MARCH 28



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.

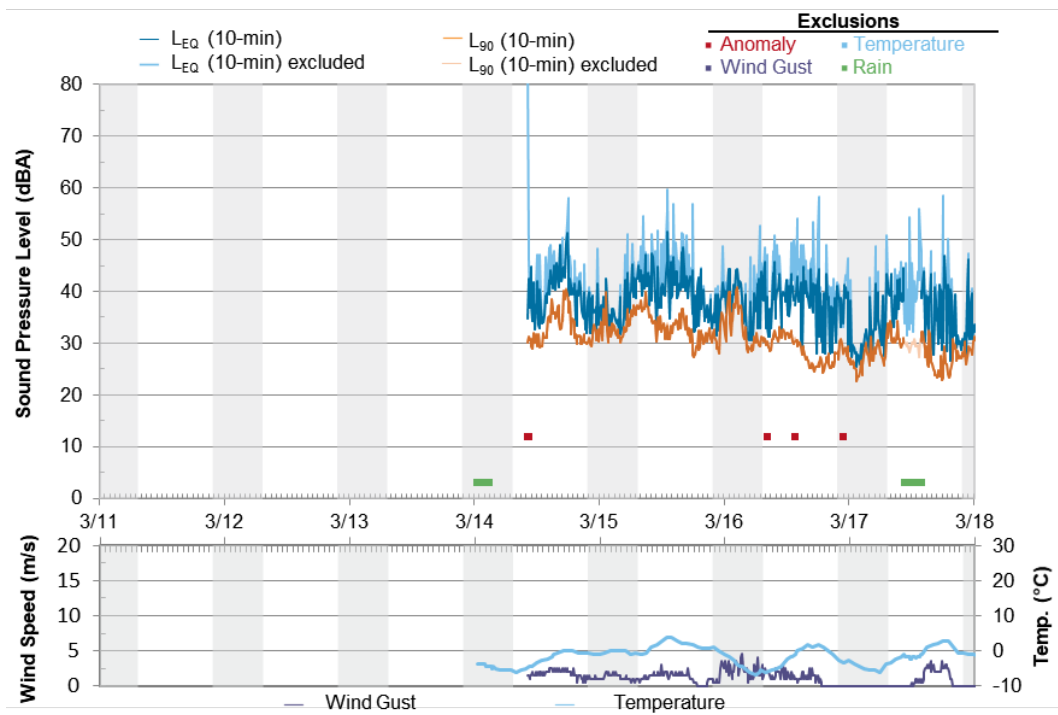


FIGURE 33: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 13 TO MARCH 18

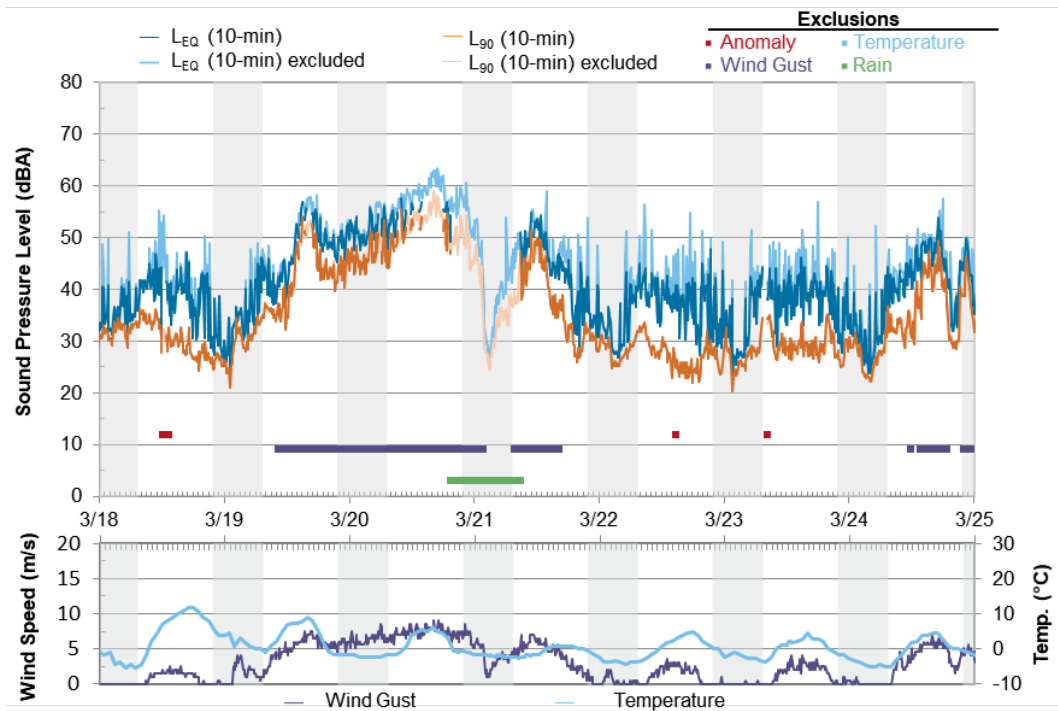


FIGURE 34: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 18 TO MARCH 25

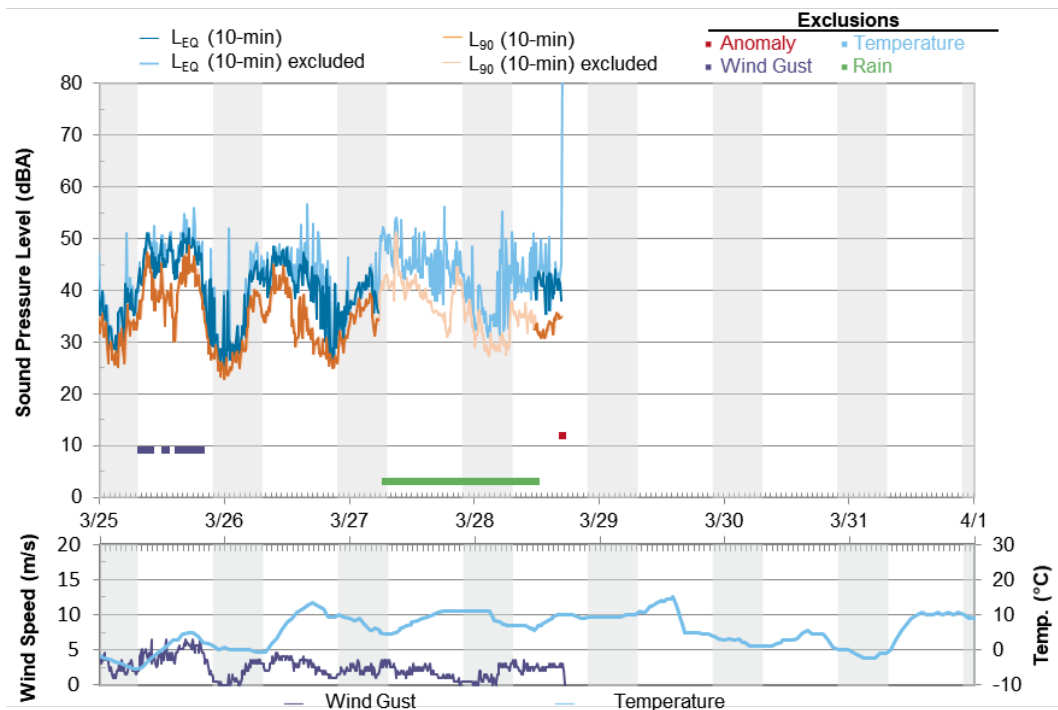


FIGURE 35: SOUND PRESSURE LEVELS OVER TIME - MONITOR 5, MARCH 25 TO MARCH 28

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.

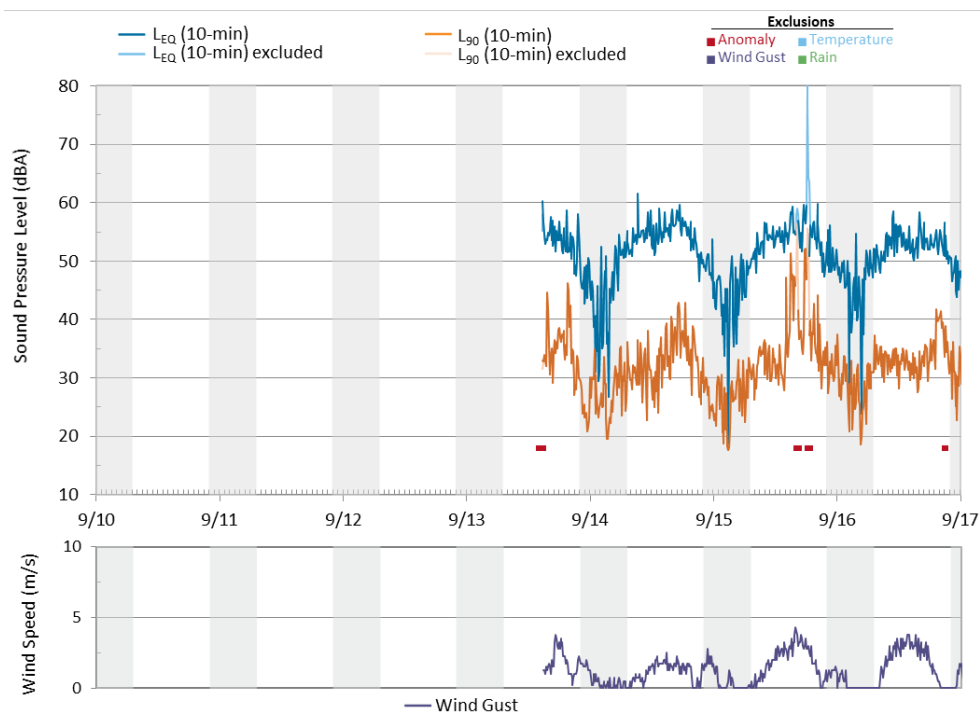


FIGURE 36: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 13 TO SEPT. 17

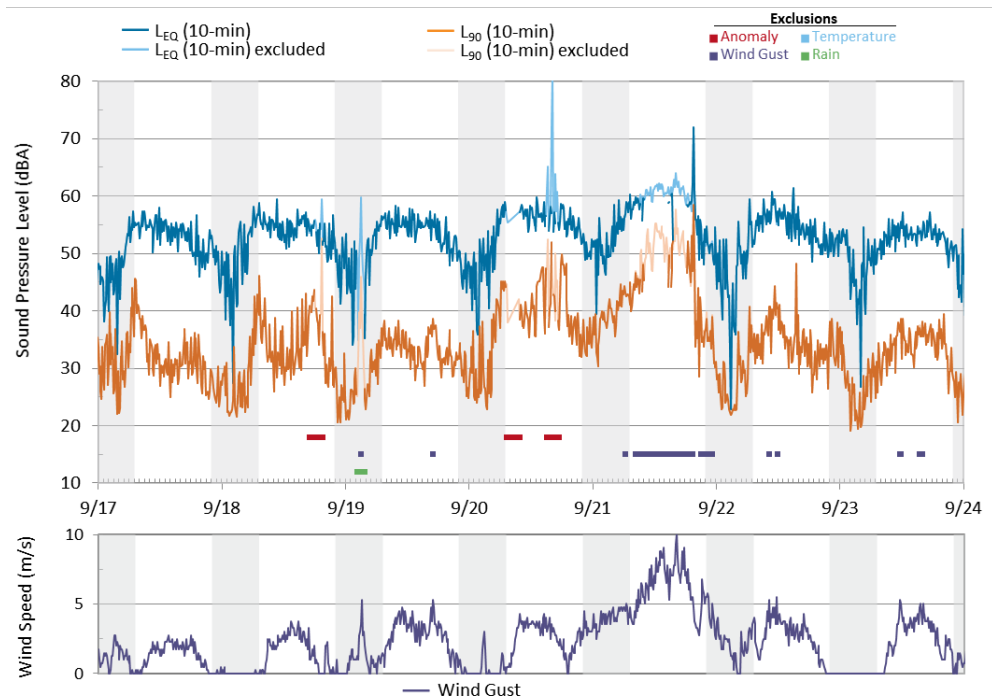


FIGURE 37: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 17 TO SEPT. 24

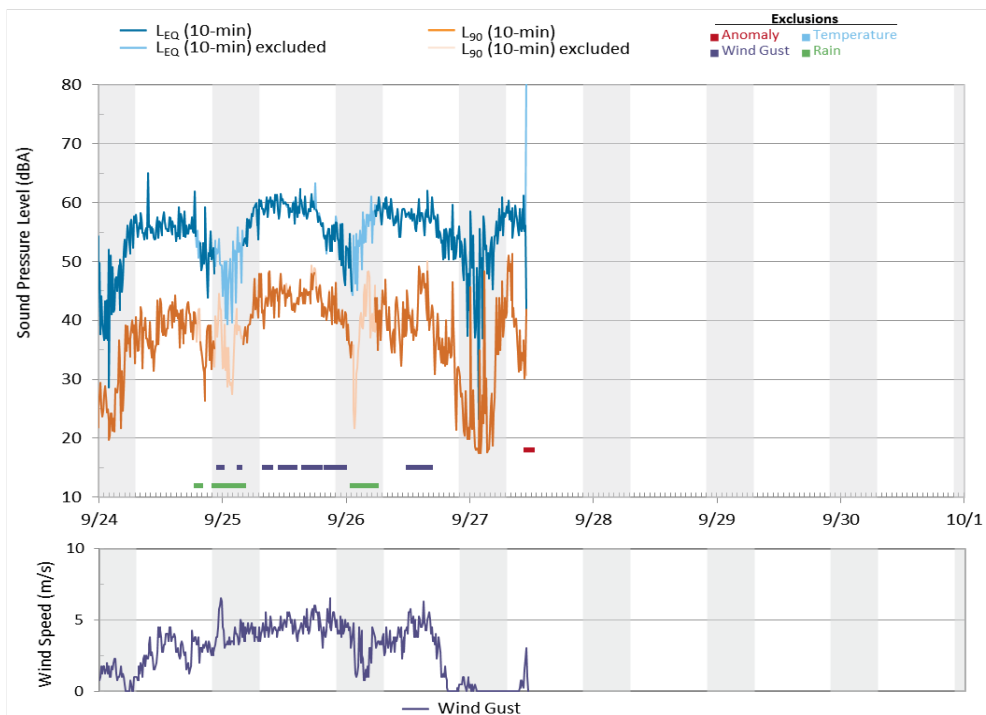


FIGURE 38: SOUND PRESSURE LEVELS OVER TIME - MONITOR 6, SEPT. 24 TO SEPT. 27

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.

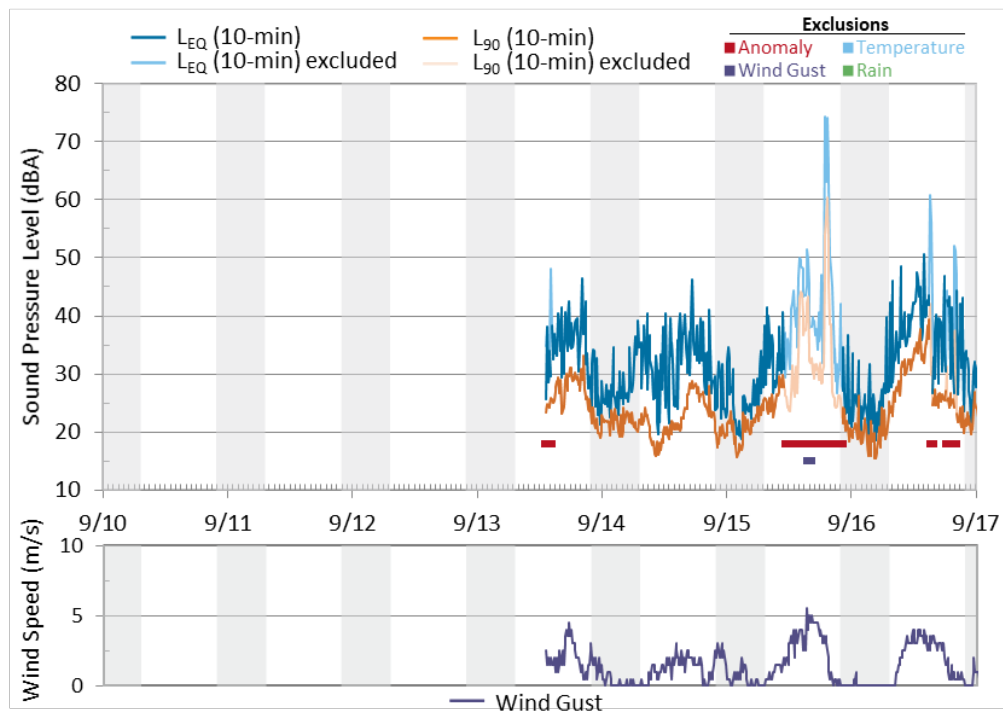


FIGURE 39: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 13 TO SEPT. 17

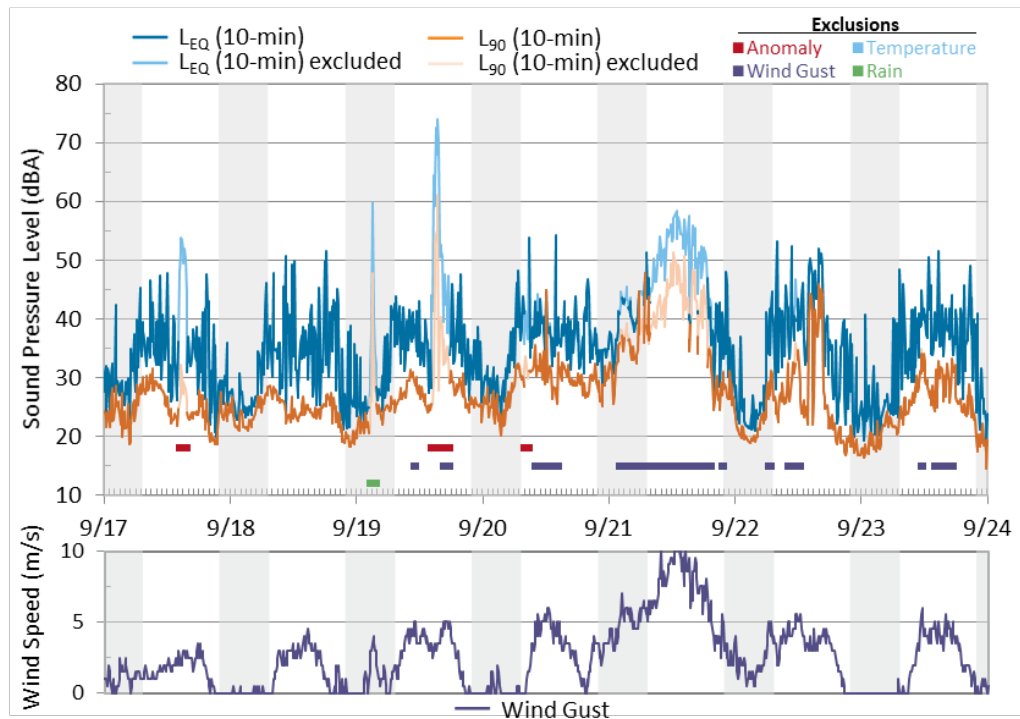


FIGURE 40: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 17 TO SEPT. 24

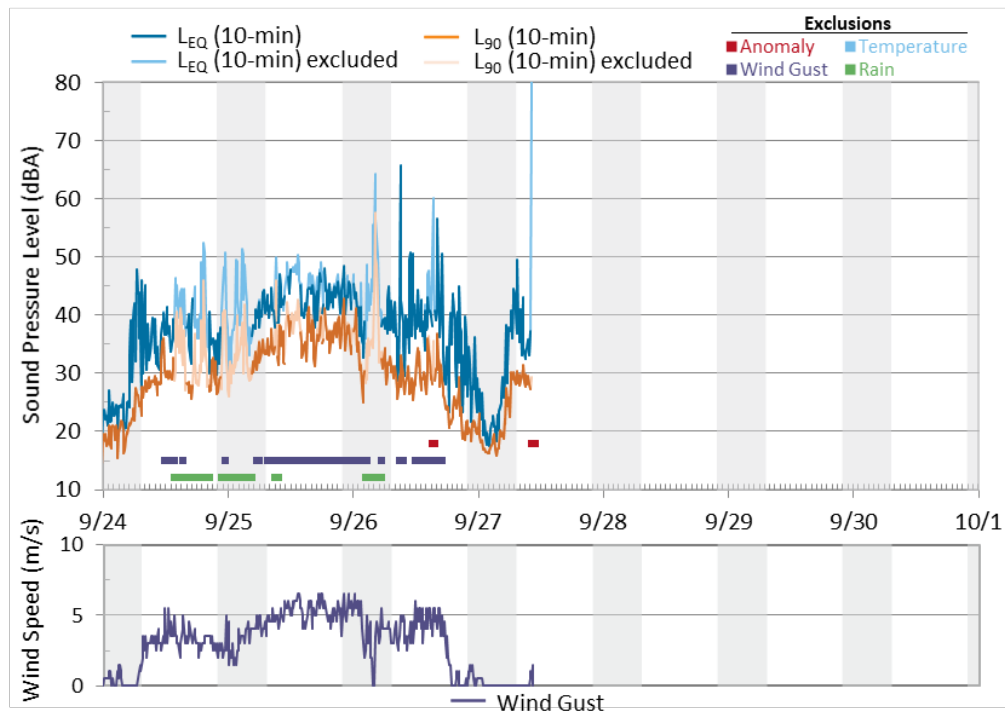


FIGURE 41: SOUND PRESSURE LEVELS OVER TIME - MONITOR 7, SEPT. 24 TO SEPT. 27



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.

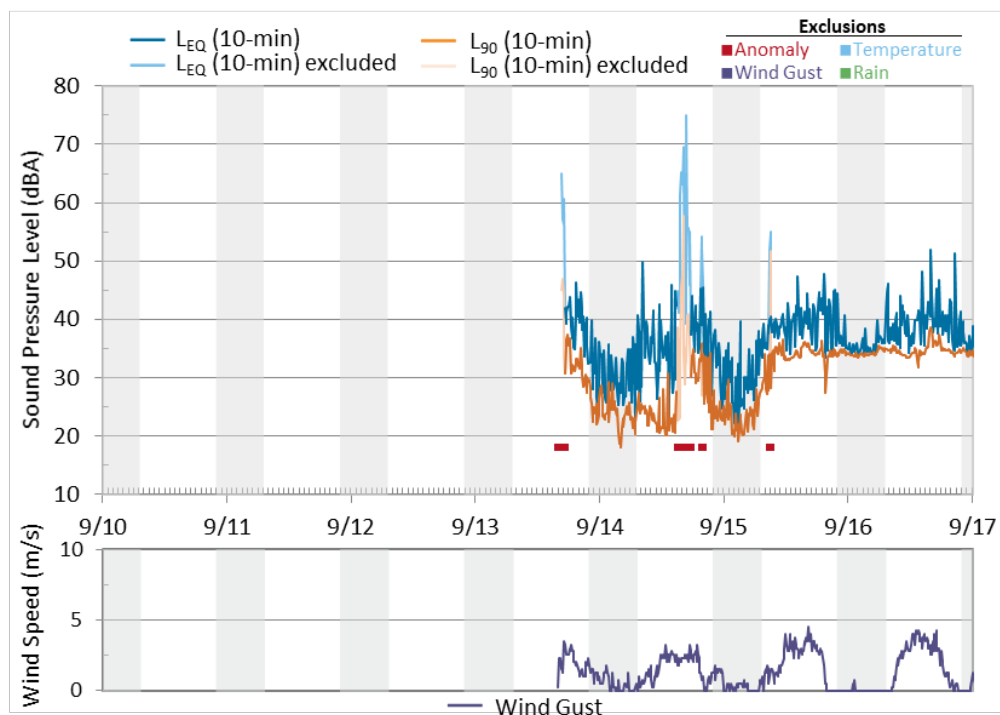


FIGURE 42: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 13 TO SEPT. 17

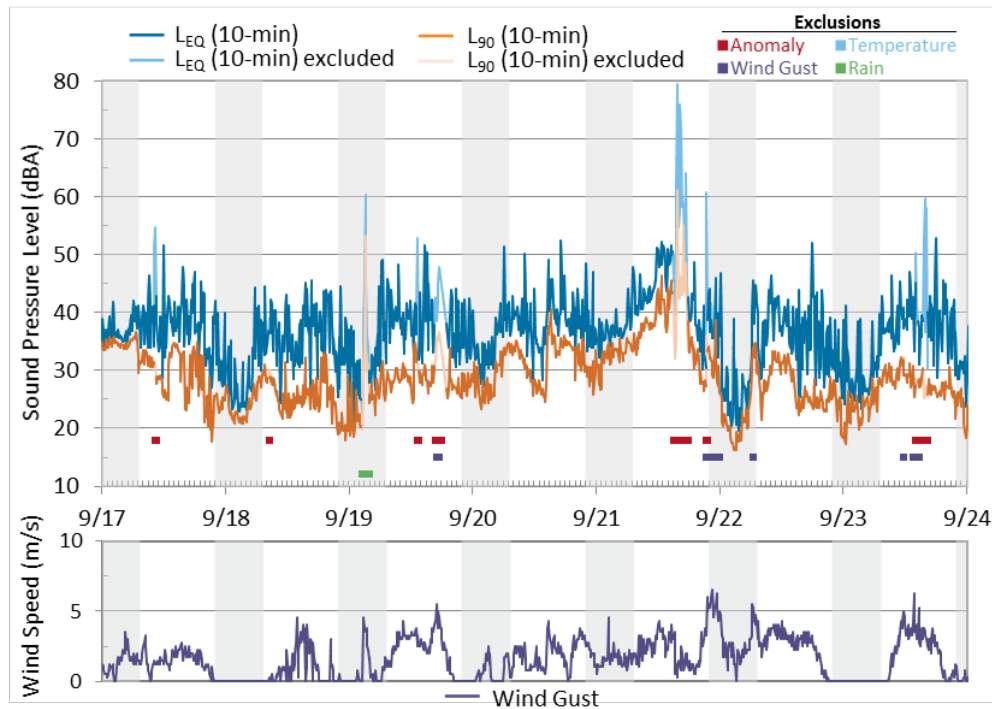


FIGURE 43: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 17 TO SEPT. 24

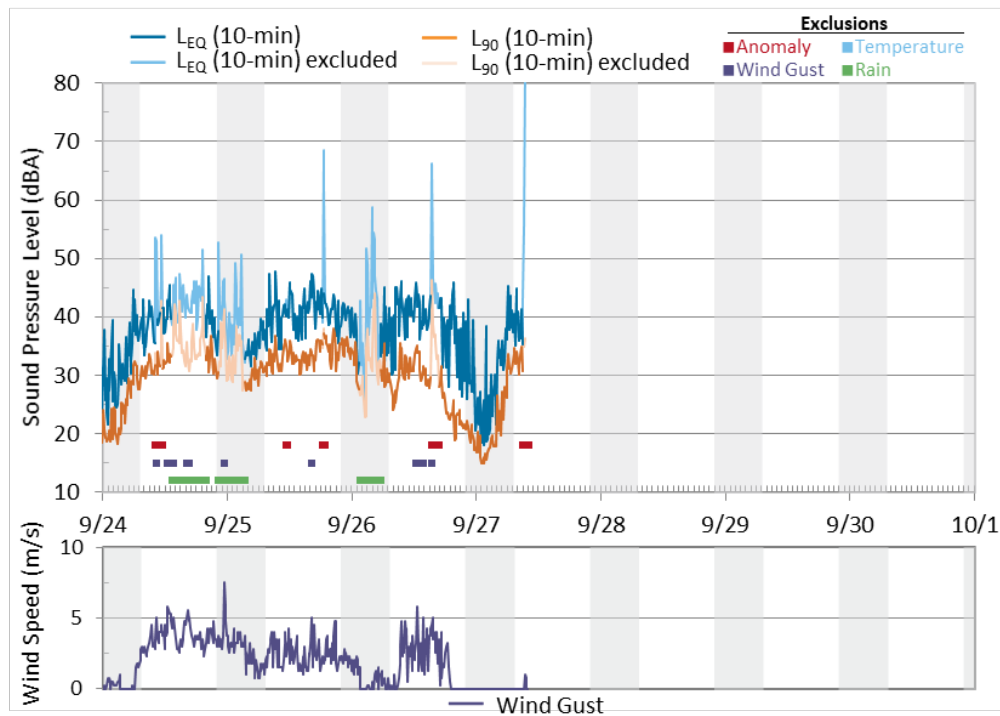


FIGURE 44: SOUND PRESSURE LEVELS OVER TIME - MONITOR 8, SEPT. 24 TO SEPT. 27



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.

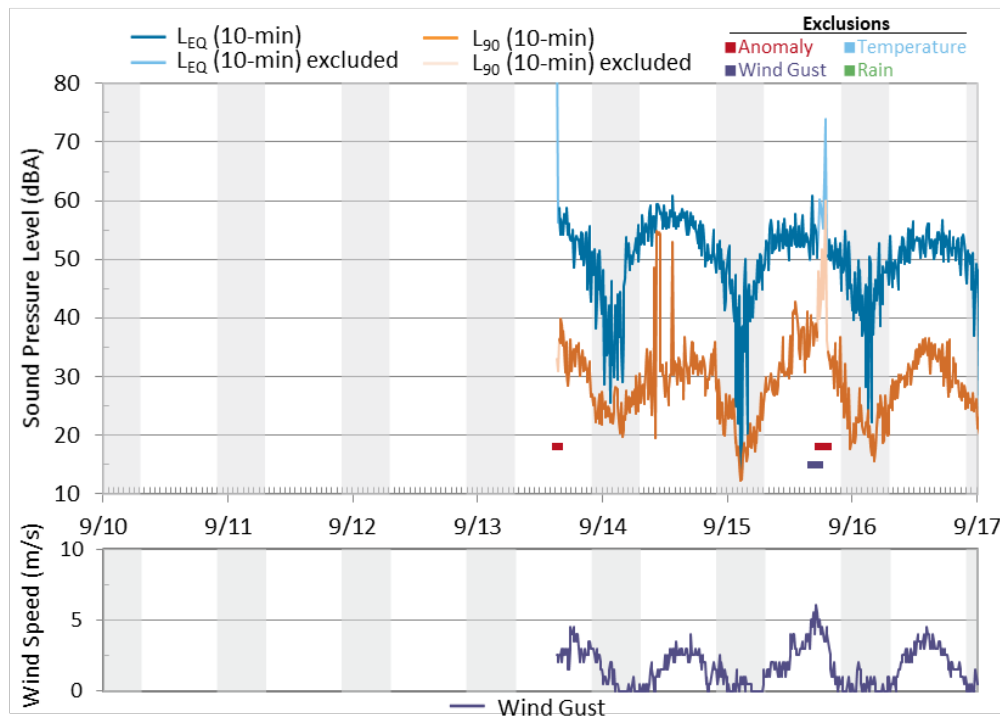


FIGURE 45: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 13 TO SEPT. 17

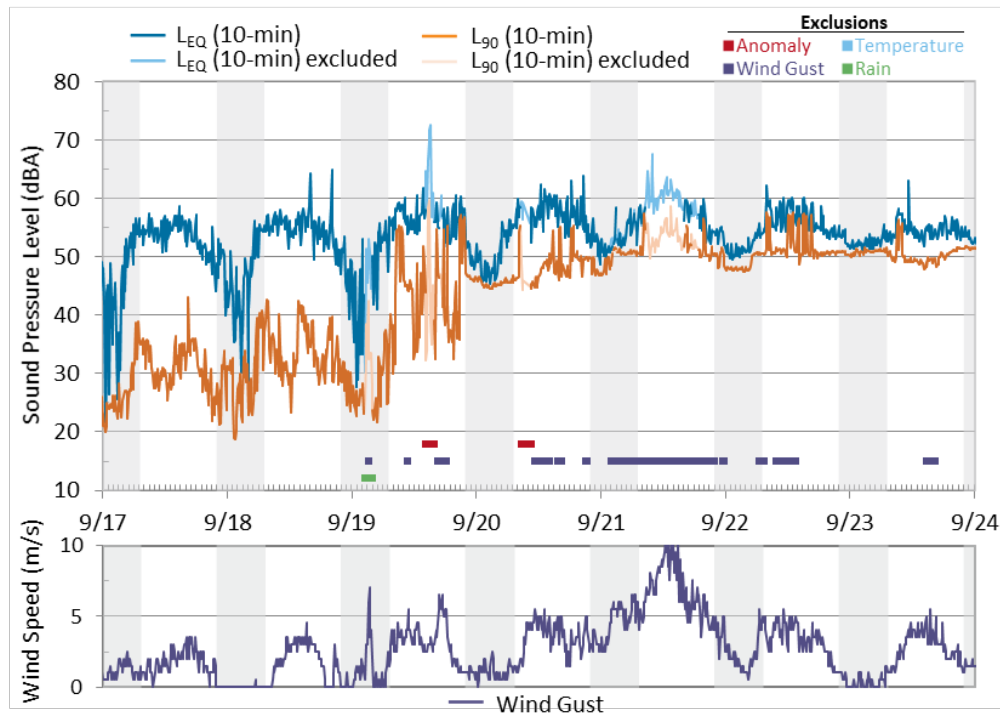


FIGURE 46: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 17 TO SEPT. 24

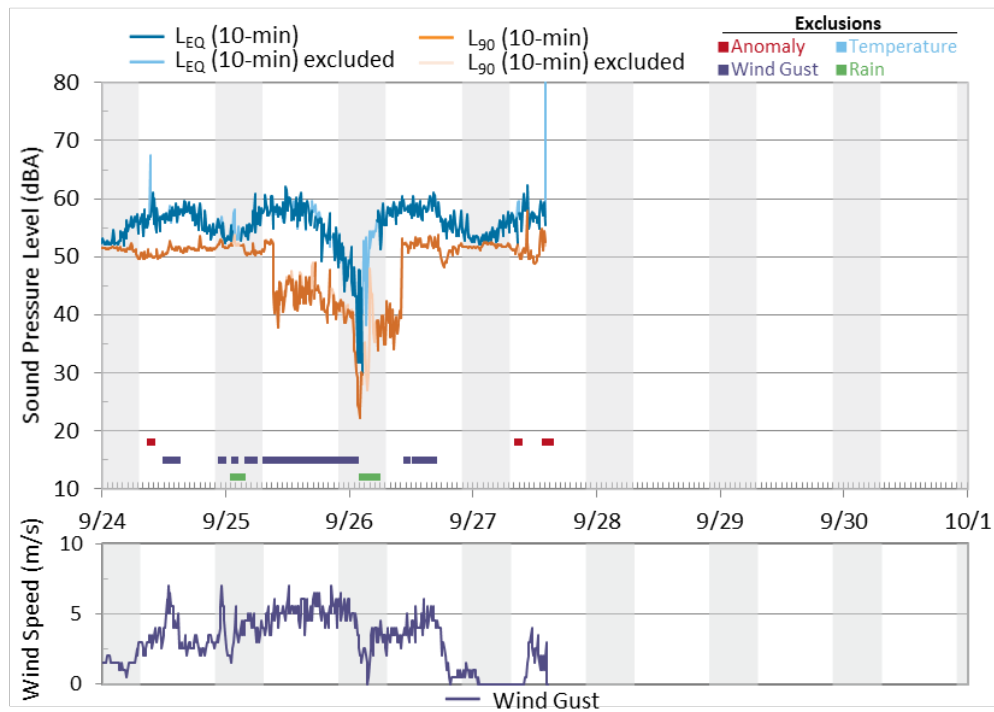


FIGURE 47: SOUND PRESSURE LEVELS OVER TIME - MONITOR 9, SEPT. 24 TO SEPT. 27



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 receptors³ 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

³ 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 RUN⁴

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 Wind⁵ 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.

⁴ 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.

⁵ "Seneca Wind Acoustic Assessment", Tetrattech, 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.

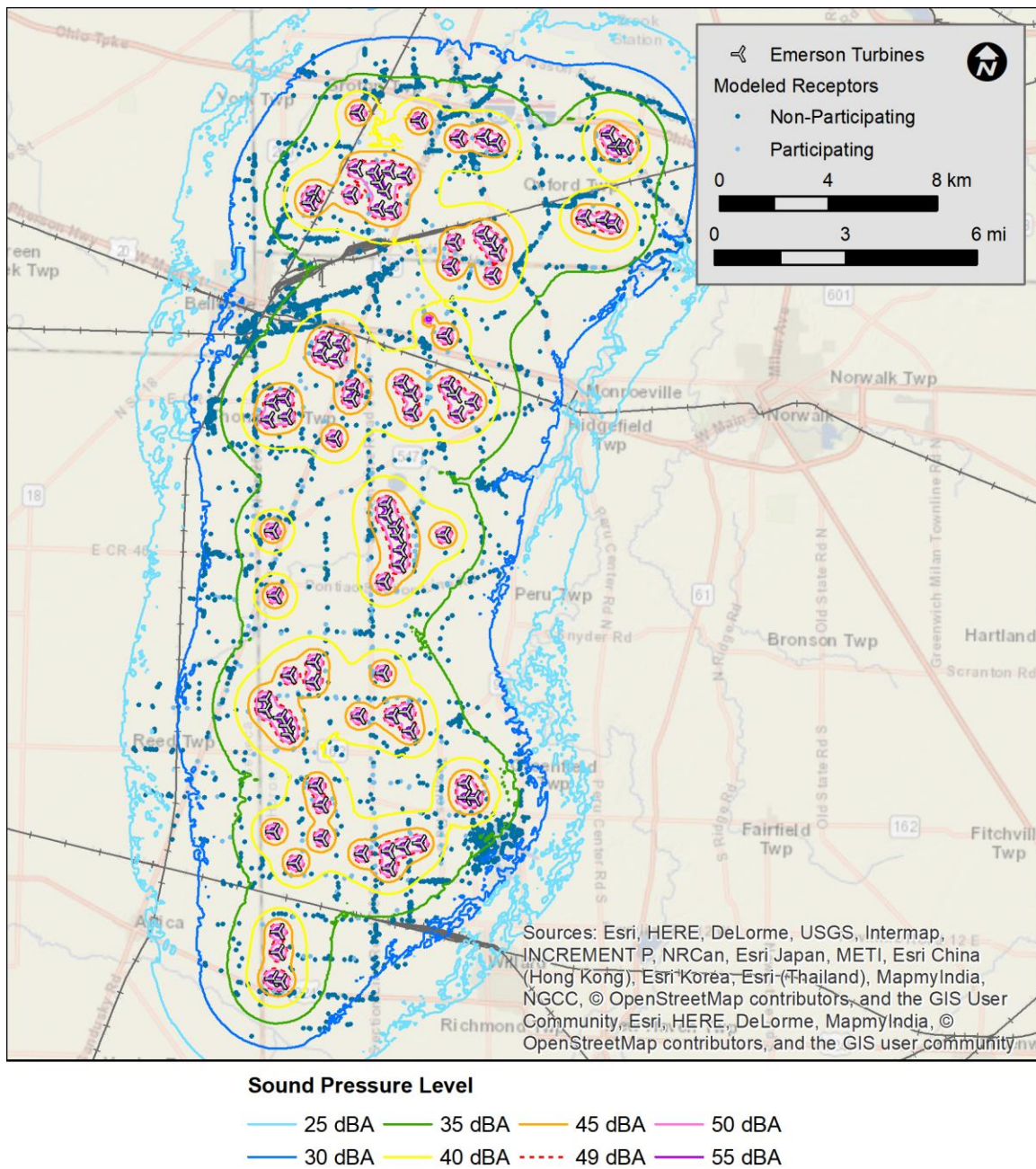


FIGURE 48: SOUND PROPAGATION MODEL RESULTS – SG 4.5-145, EMERSON TURBINES ONLY

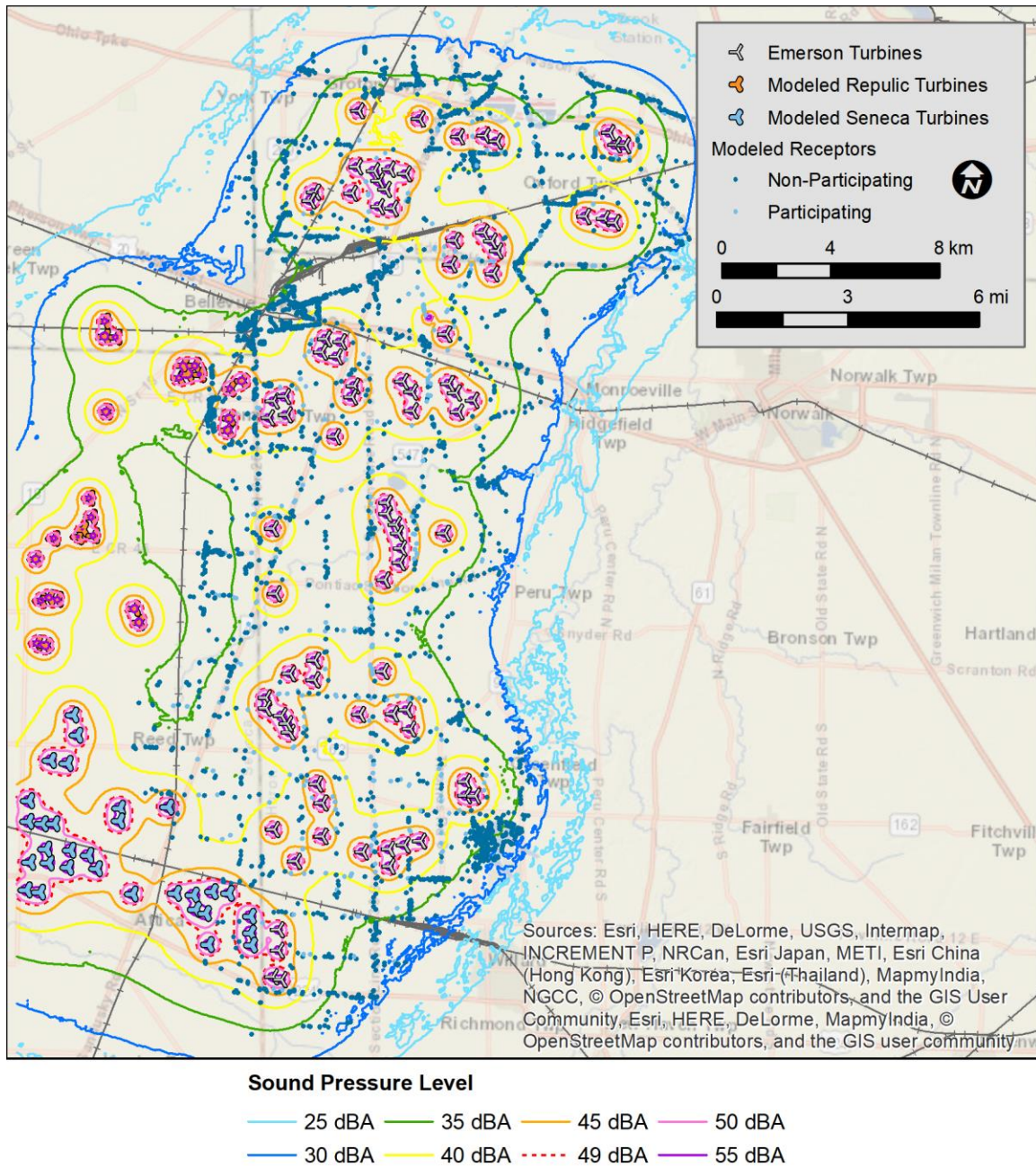


FIGURE 49: SOUND PROPAGATION MODEL RESULTS – CUMMULATIVE MODEL RUN, EMERSON CREEK (SG 4.5-145), REPUBLIC WIND, AND SENECA WIND

7.0 CONSTRUCTION NOISE

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

Equipment	Maximum Sound Pressure Level at 447 meters (1,468 feet) (dBA) ⁶	Maximum Sound Pressure Level at 15 meters (50 feet) (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.

⁶ 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

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”).⁷ 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.

⁷ 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.



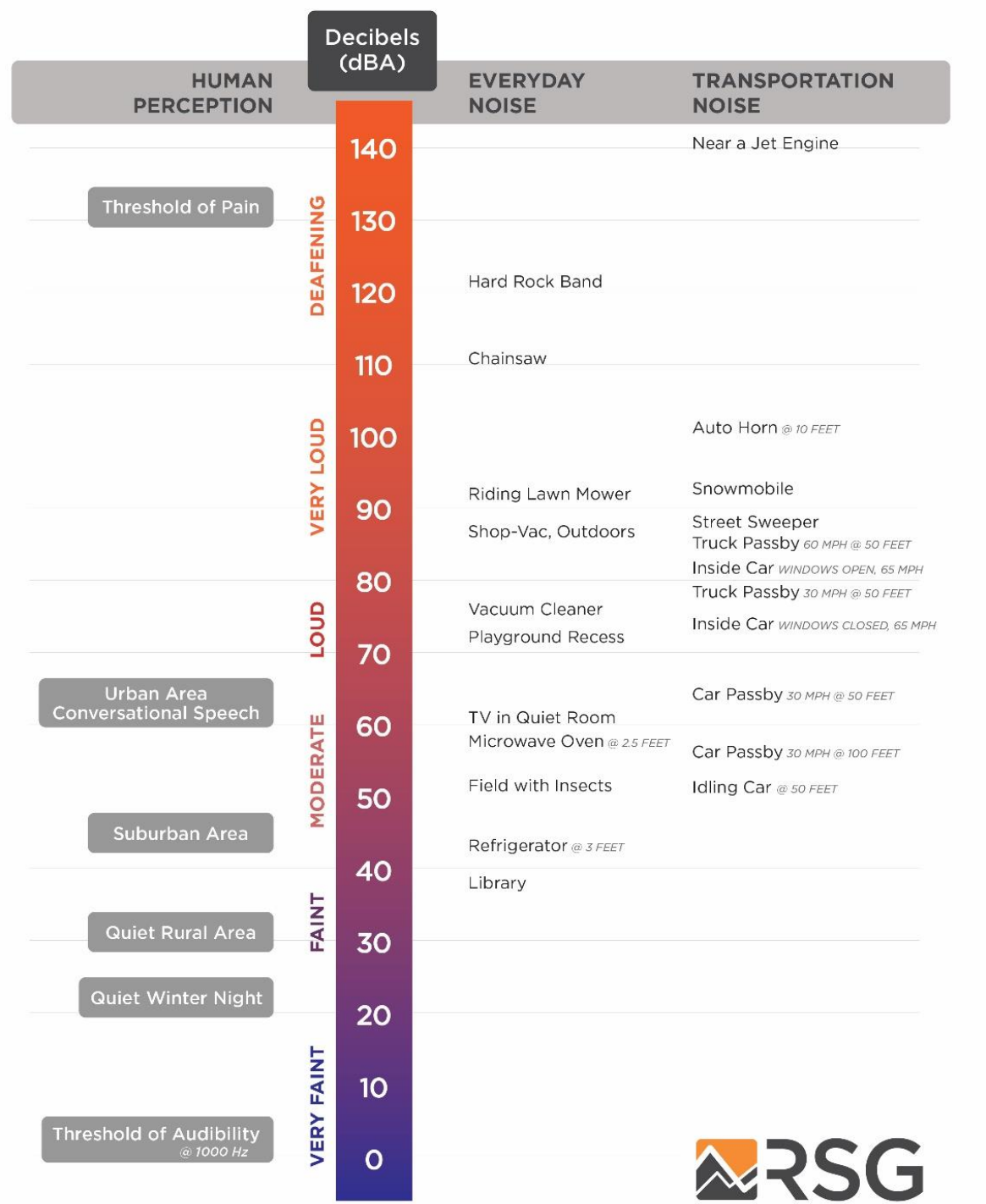


FIGURE 50: A SCALE OF SOUND PRESSURE LEVELS FOR TYPICAL SOUND SOURCES

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.⁸ 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_{max}”. One can define a “max” level with Fast response L_{Fmax} (1/8-second time constant), Slow time response L_{Smax} (1-second time constant), or Continuous Equivalent level over a specified time period L_{EQmax}.

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

⁸ 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 - Leq

One straightforward, common way of describing sound levels is in terms of the Continuous Equivalent Sound Level, or L_{EQ} . The L_{EQ} is the average sound pressure level over a defined period of time, such as one hour or one day. L_{EQ} is the most commonly used descriptor in noise standards and regulations. L_{EQ} is representative of the overall sound to which a person is exposed. Because of the logarithmic calculation of decibels, L_{EQ} 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_{EQ} is 41 dBA, having been “inflated” by the maximum level of 65 dBA and other occasional spikes over the course of the hour.

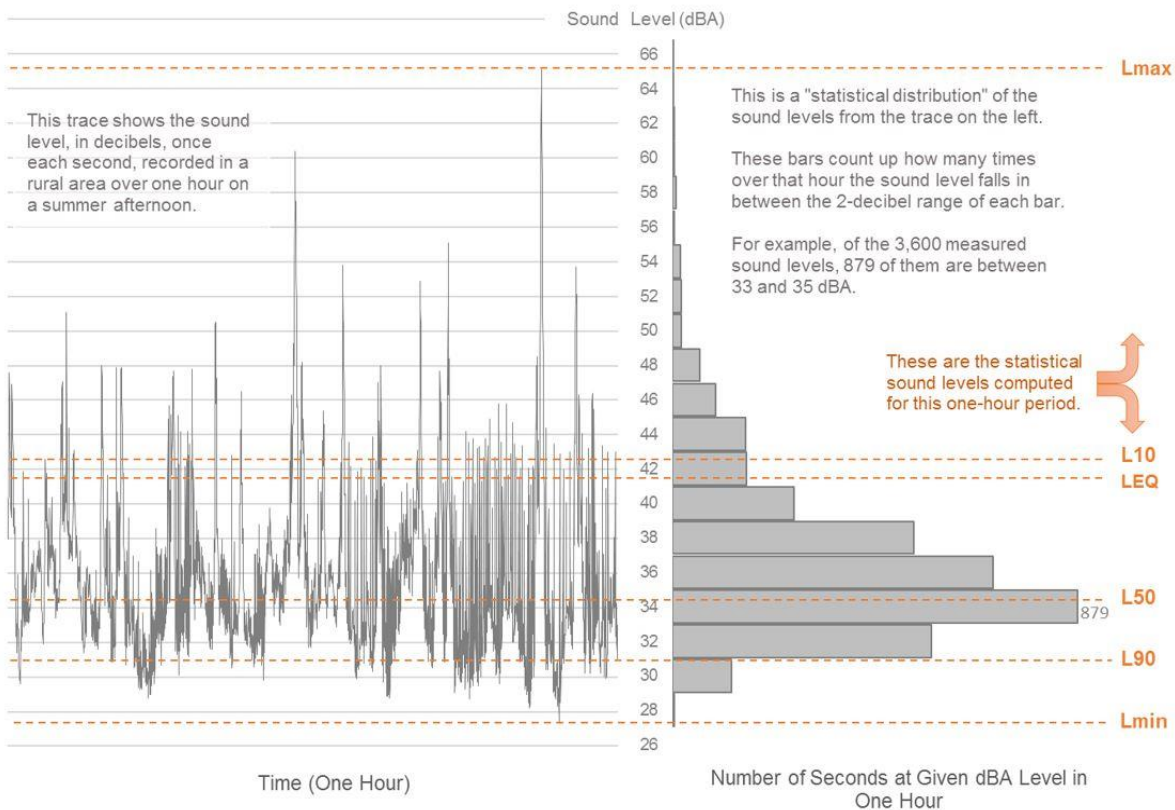


FIGURE 51: EXAMPLE OF DESCRIPTIVE TERMS OF SOUND MEASUREMENT OVER TIME

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.

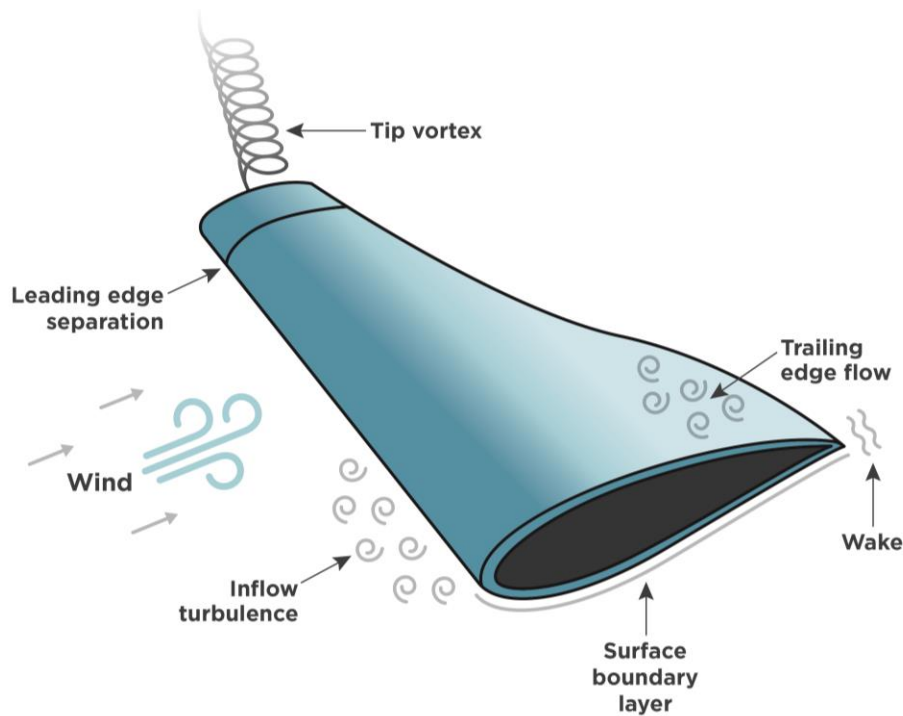


FIGURE 52: AIRFLOW AROUND A ROTOR BLADE

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.⁹ Most amplitude modulation is in the mid frequencies and most overall A-weighted AM is less than 4.5 dB in depth.¹⁰

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.¹¹ 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).

⁹ 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.

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

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

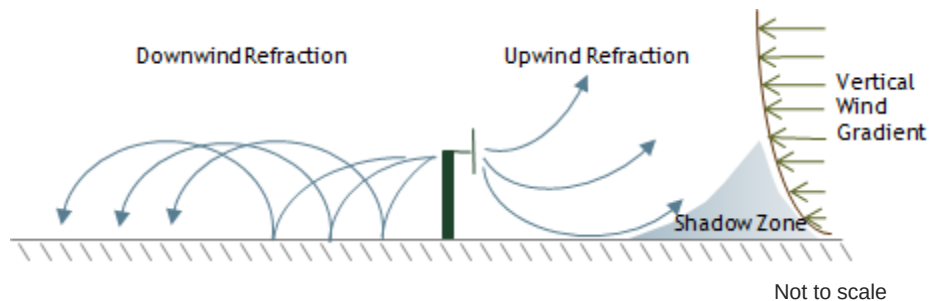


FIGURE 53: SCHEMATIC OF THE REFRACTION OF SOUND DUE TO VERTICAL WIND GRADIENT (WIND SHEAR)

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.

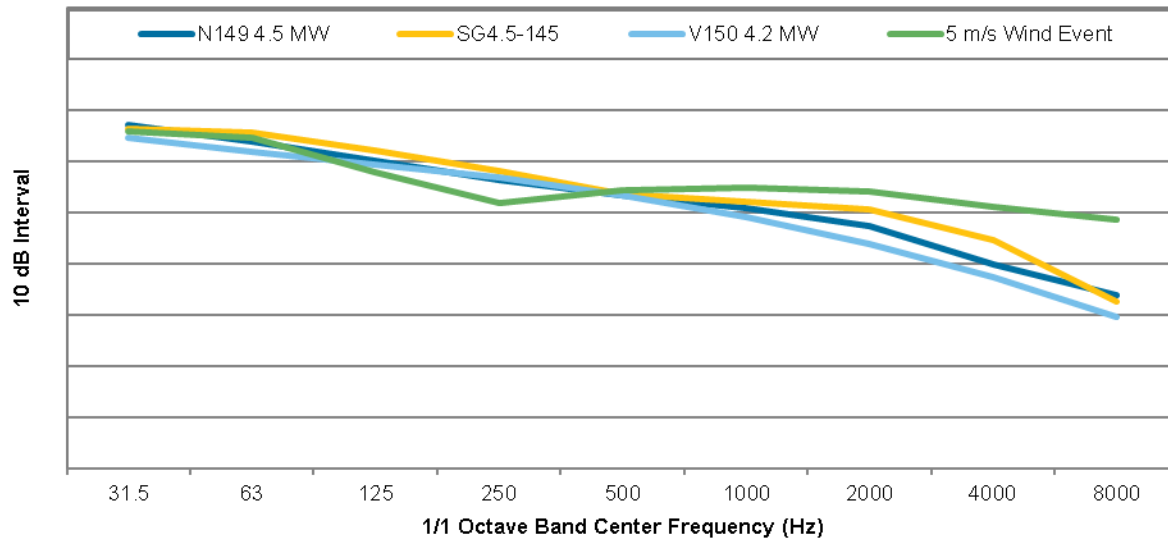


FIGURE 54: COMPARISON OF NORMALIZED FREQUENCY SPECTRA MEASURED FROM A 5 M/S WIND EVENT AND THE SOUND POWER SPECTRA FROM VESTAS V150, SIEMENS SG4.5-145, AND NORDEX N149 WIND TURBINES ¹²

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.

¹² 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.¹³ 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.

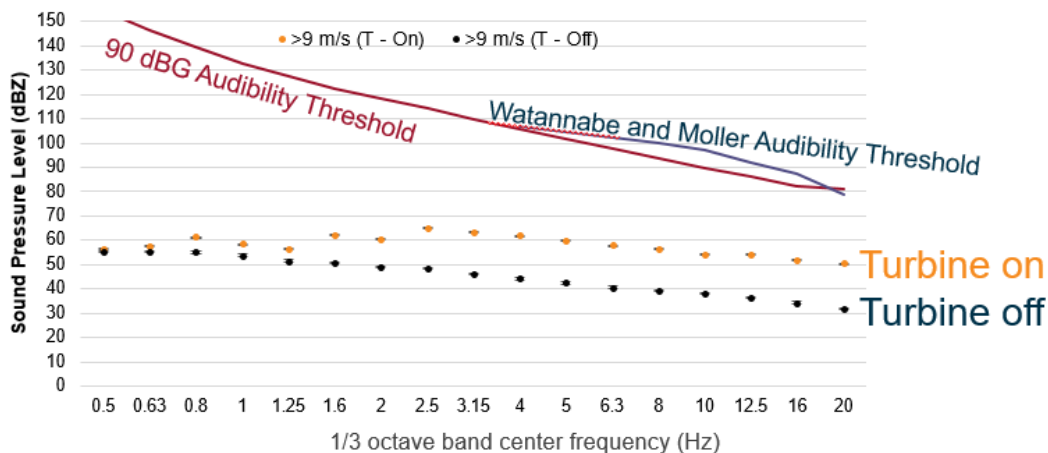


FIGURE 55: INFRASOUND FROM A WIND TURBINE AT 350 METERS COMPARED WITH PERCEPTION THRESHOLDS

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.¹⁴ We then compared these measured background levels to those measured 350 meters from an operating wind turbine in Massachusetts.¹⁵ 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.

¹³ 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

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

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



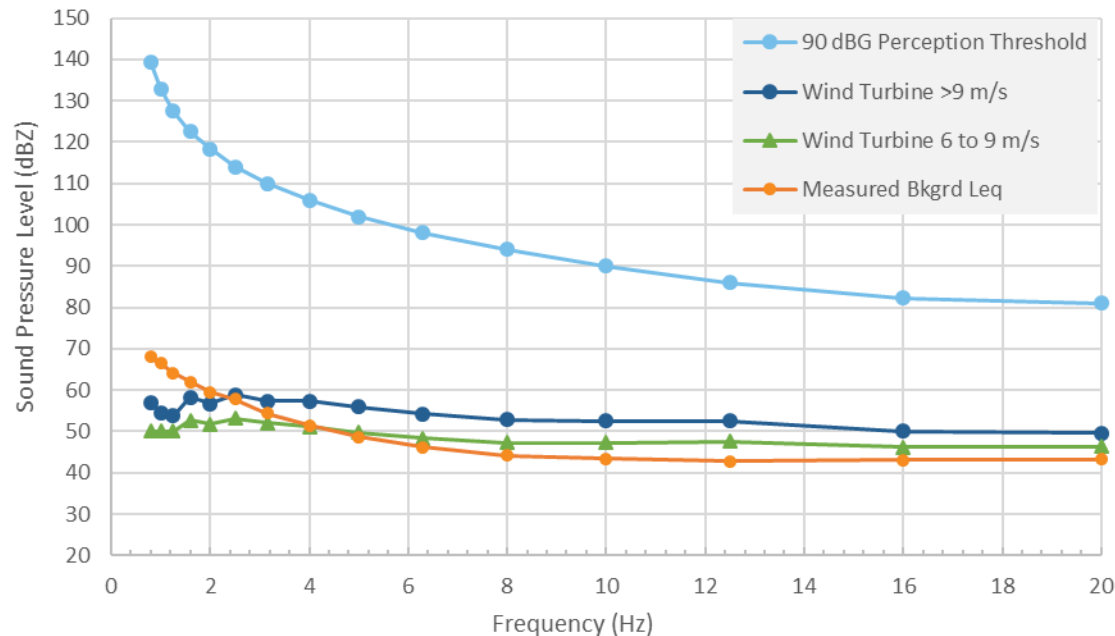


FIGURE 56: COMPARISON OF MEASURED BACKGROUND INFRASOUND AT A REMOTE SITE IN CHERRY CREEK NY WITH THOSE FROM MEASURED 350 METERS FROM AN OPERATING WIND TURBINE AND THE 90 dBG PERCEPTION THRESHOLD.

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

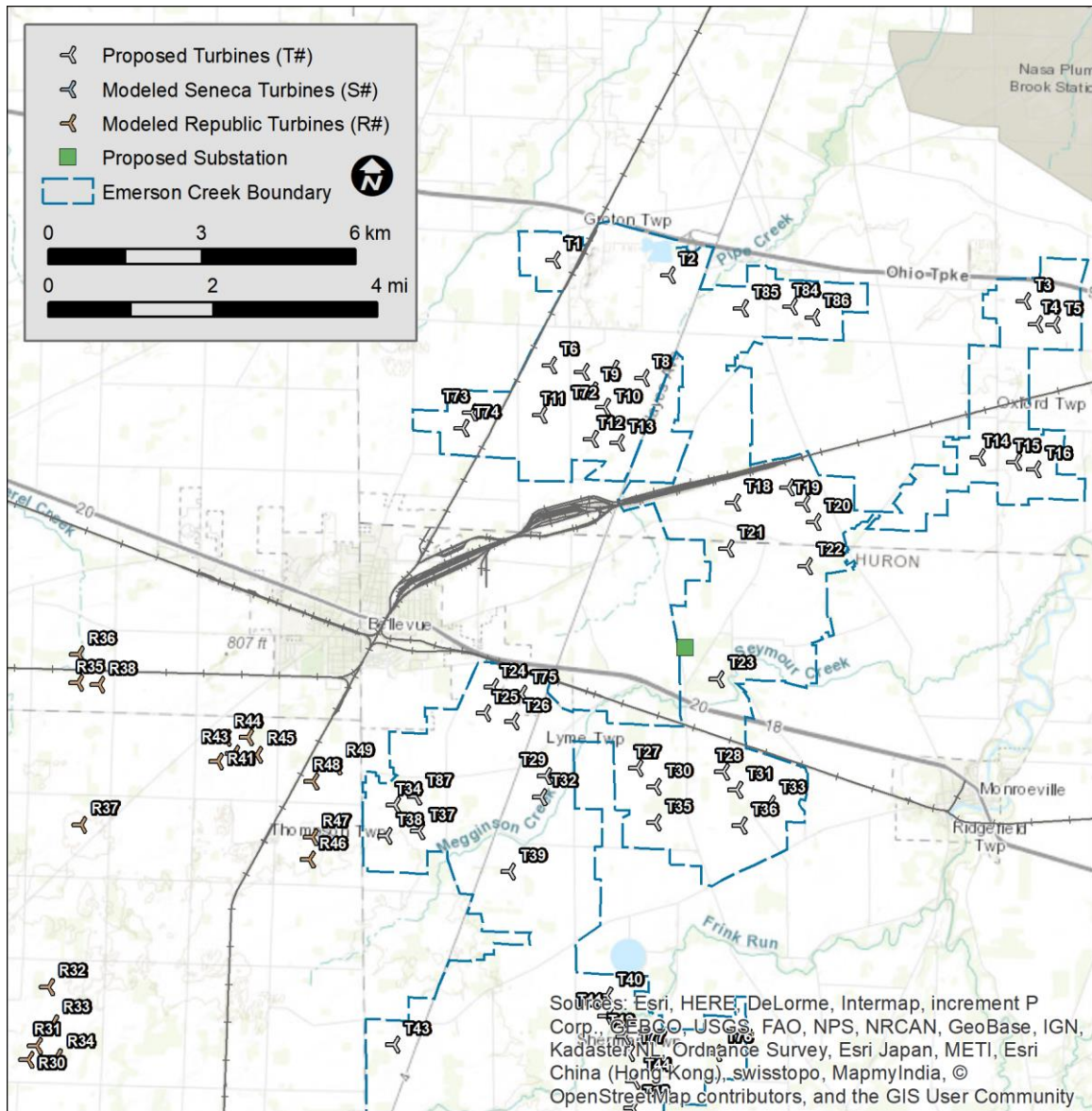


FIGURE 57: MAP OF MODELED SOURCES (NORTHERN AREA)

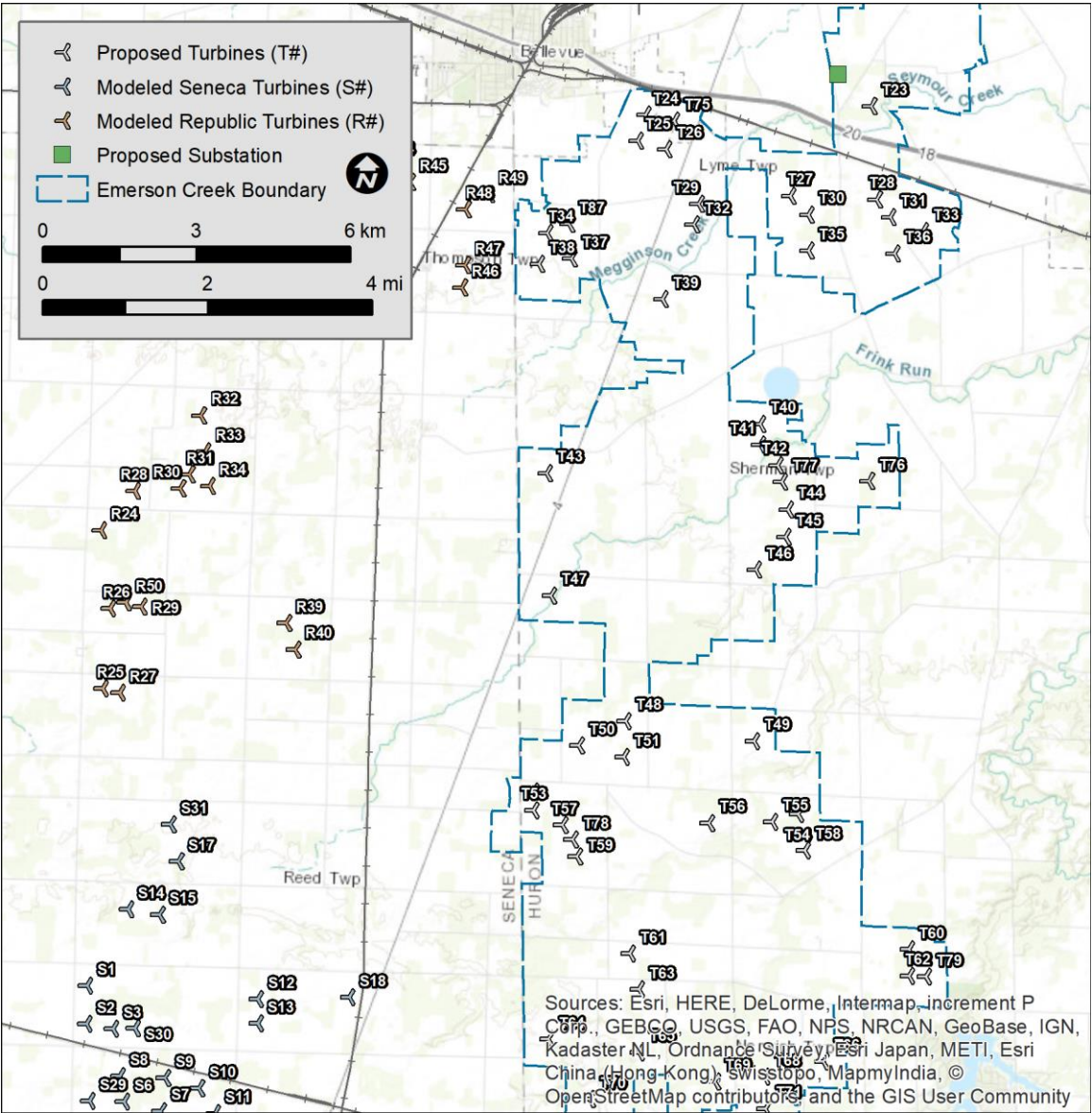


FIGURE 58: MAP OF MODELED SOURCES (MIDDLE AREA)

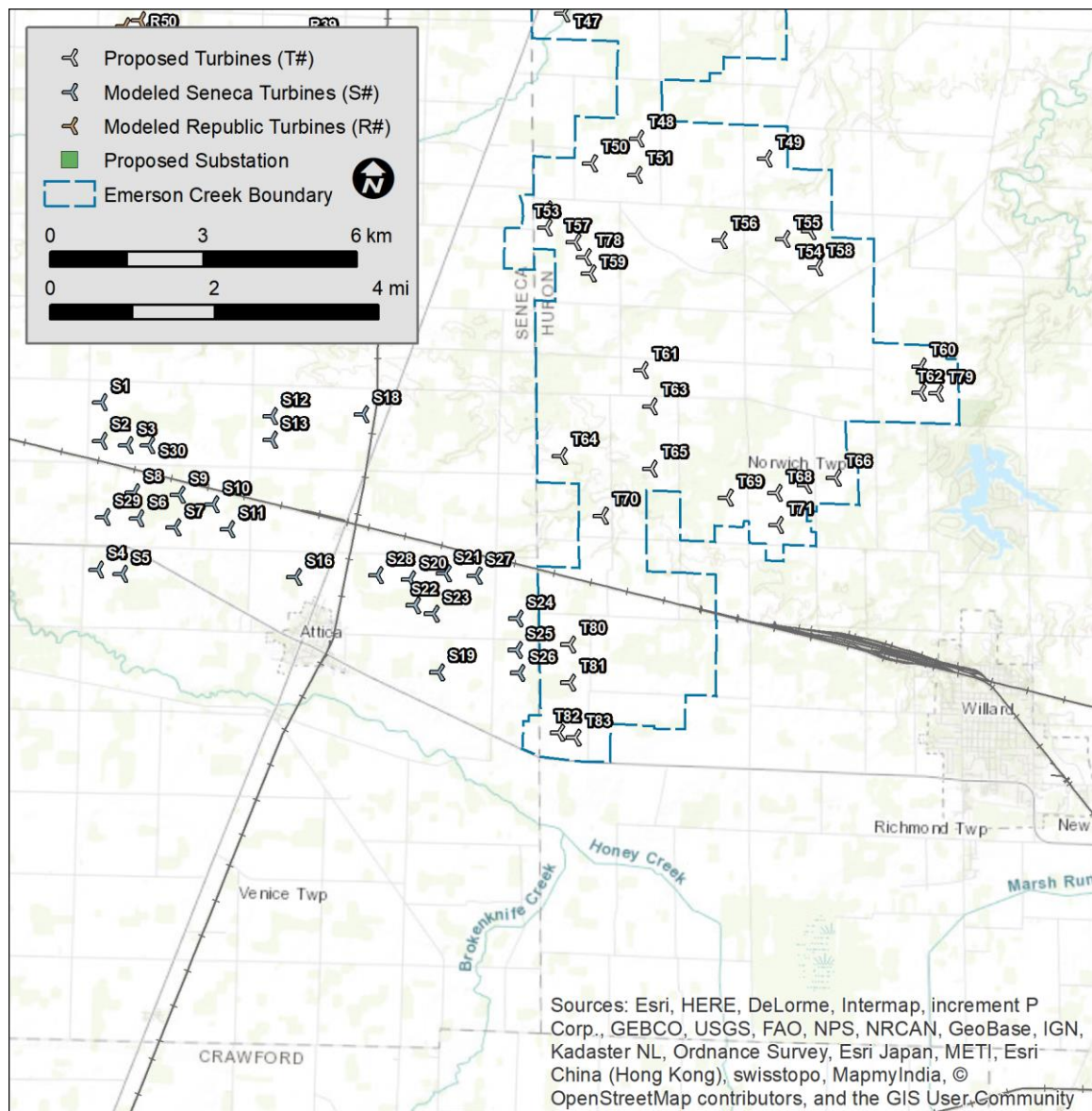


FIGURE 59: MAP OF MODELED SOURCES (SOUTHERN AREA)

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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 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 4.2 MW	V150 5.6 MW	N149 4.5 MW at 109m HH	N149 4.5 MW at 125m HH	SG 4.5-145	Cumulative (Emerson w/SG4.5-145, Republic, and 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

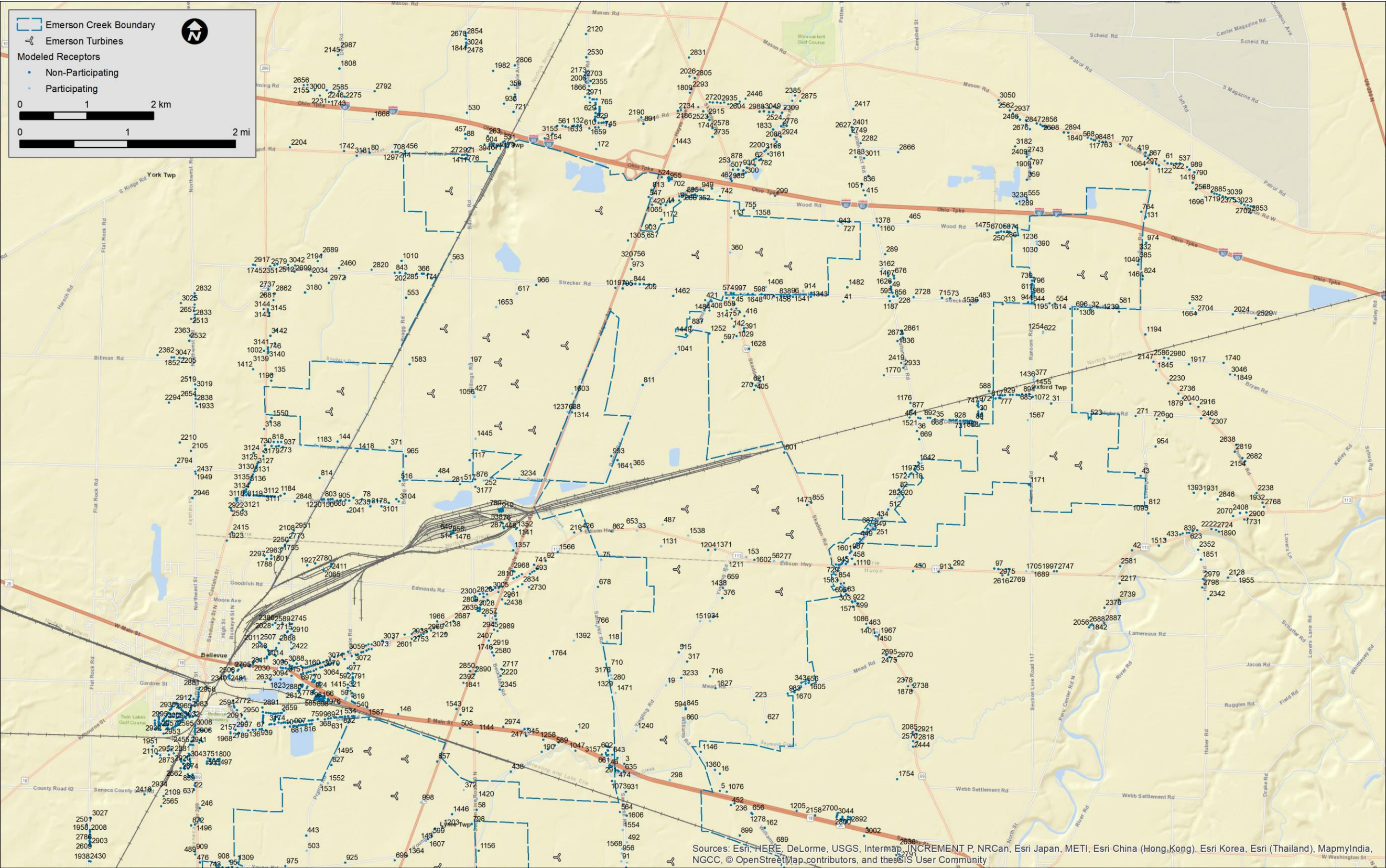


FIGURE 60: MODELED RECEPTOR MAP (NORTHERN AREA)

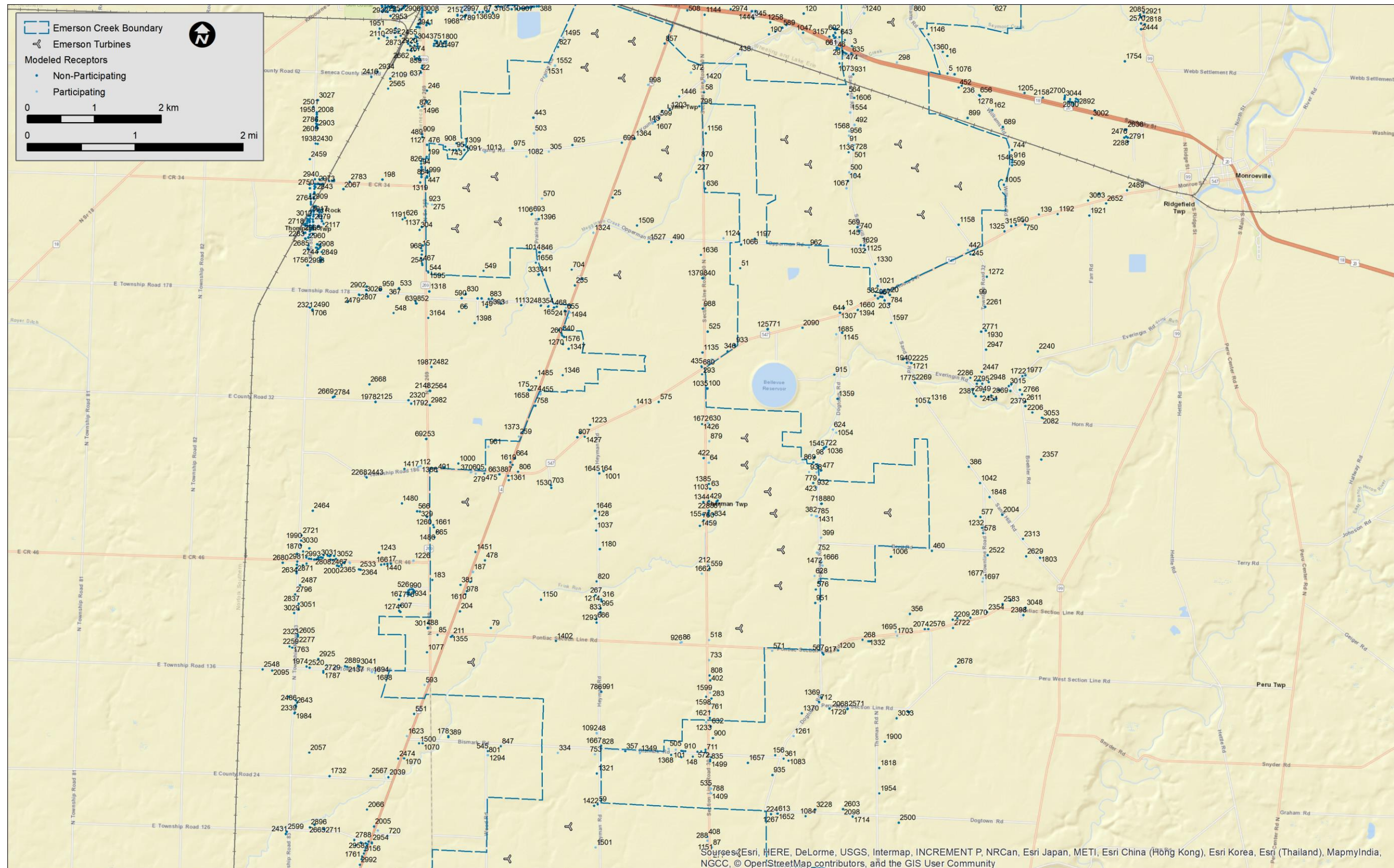


FIGURE 61: MODELED RECEPTOR MAP (MIDDLE AREA)

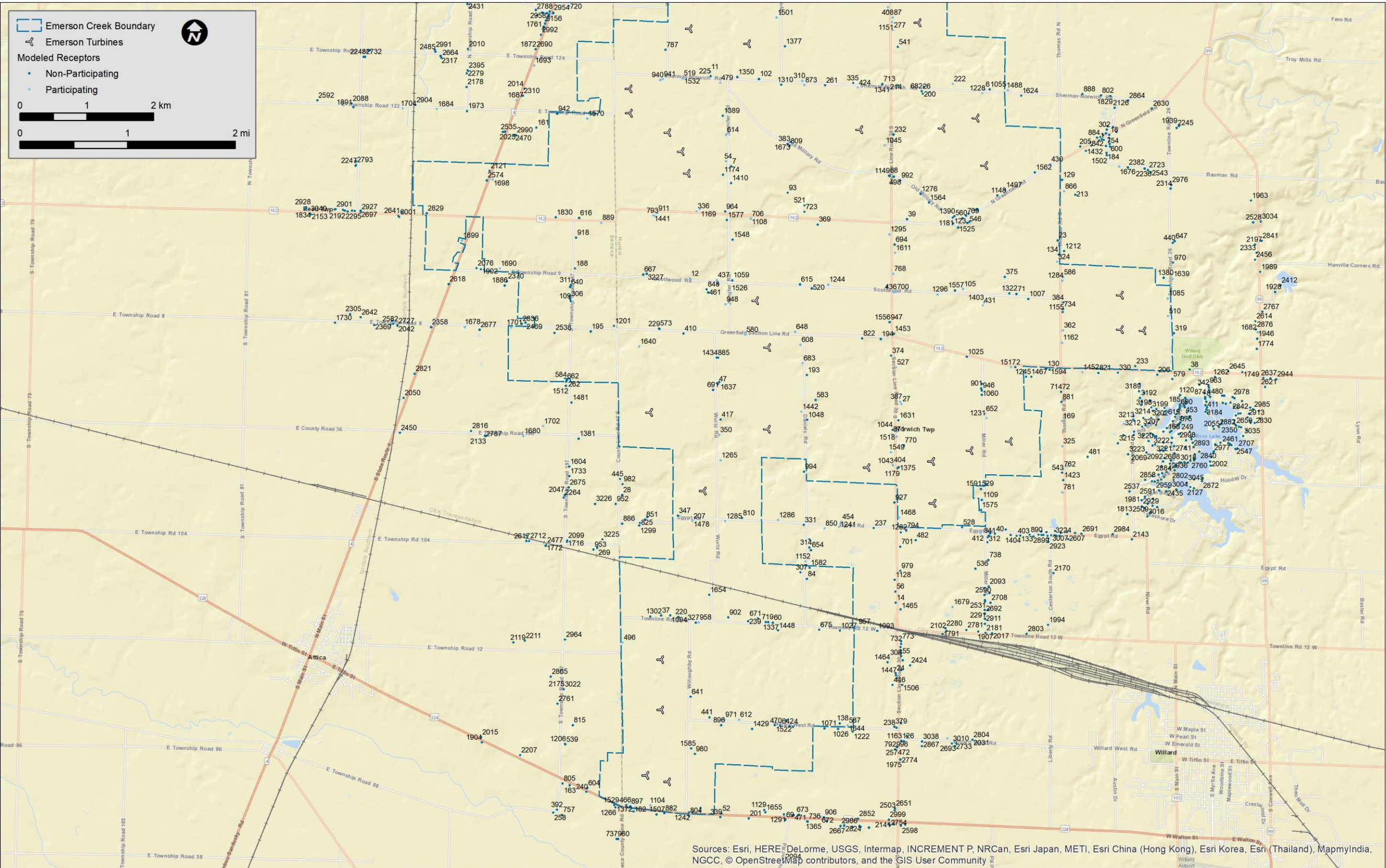


FIGURE 62: MODELED RECEPTOR MAP (SOUTHERN AREA)



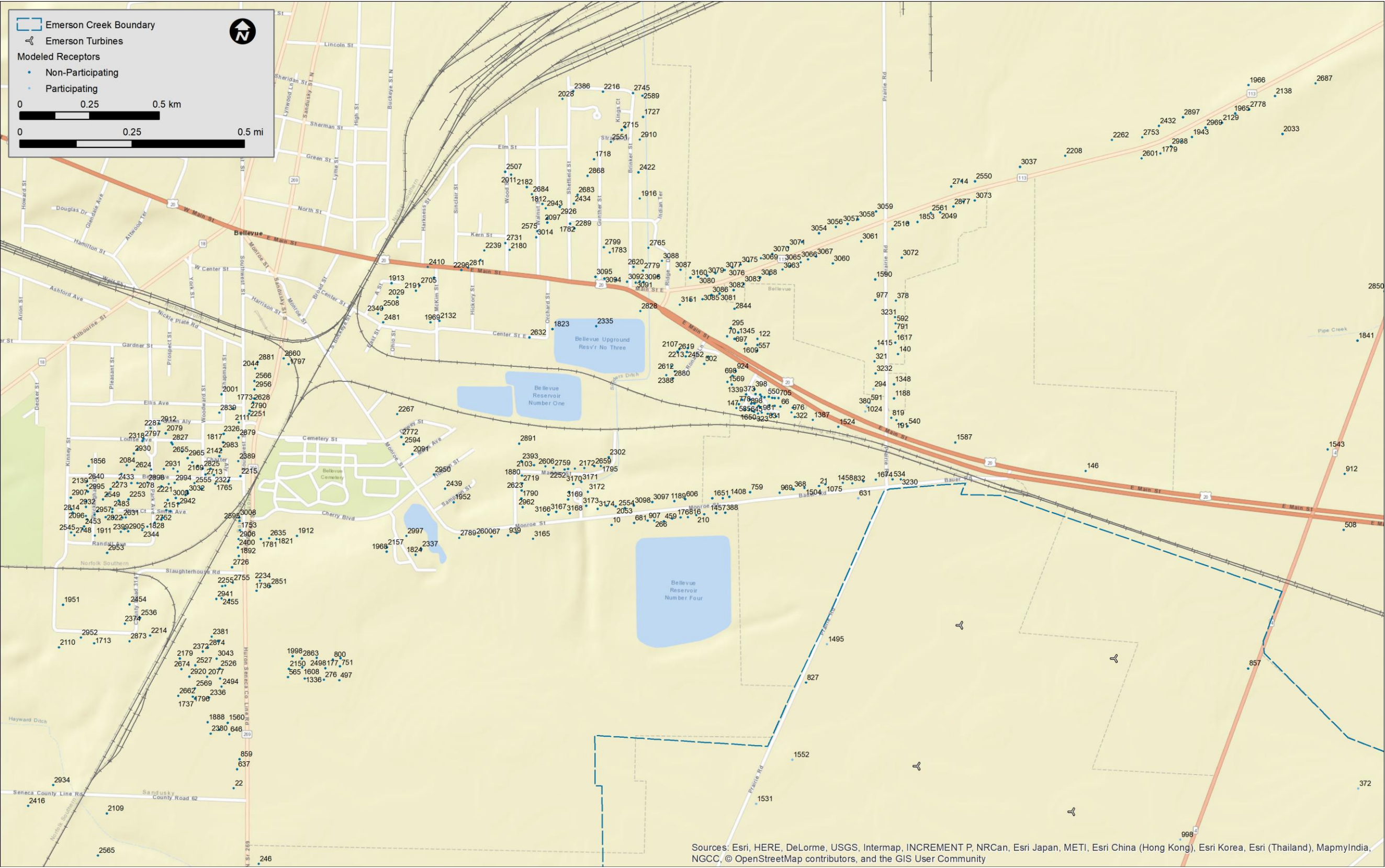


FIGURE 63: MODELED RECEPTOR MAP (BELLEVUE AREA)

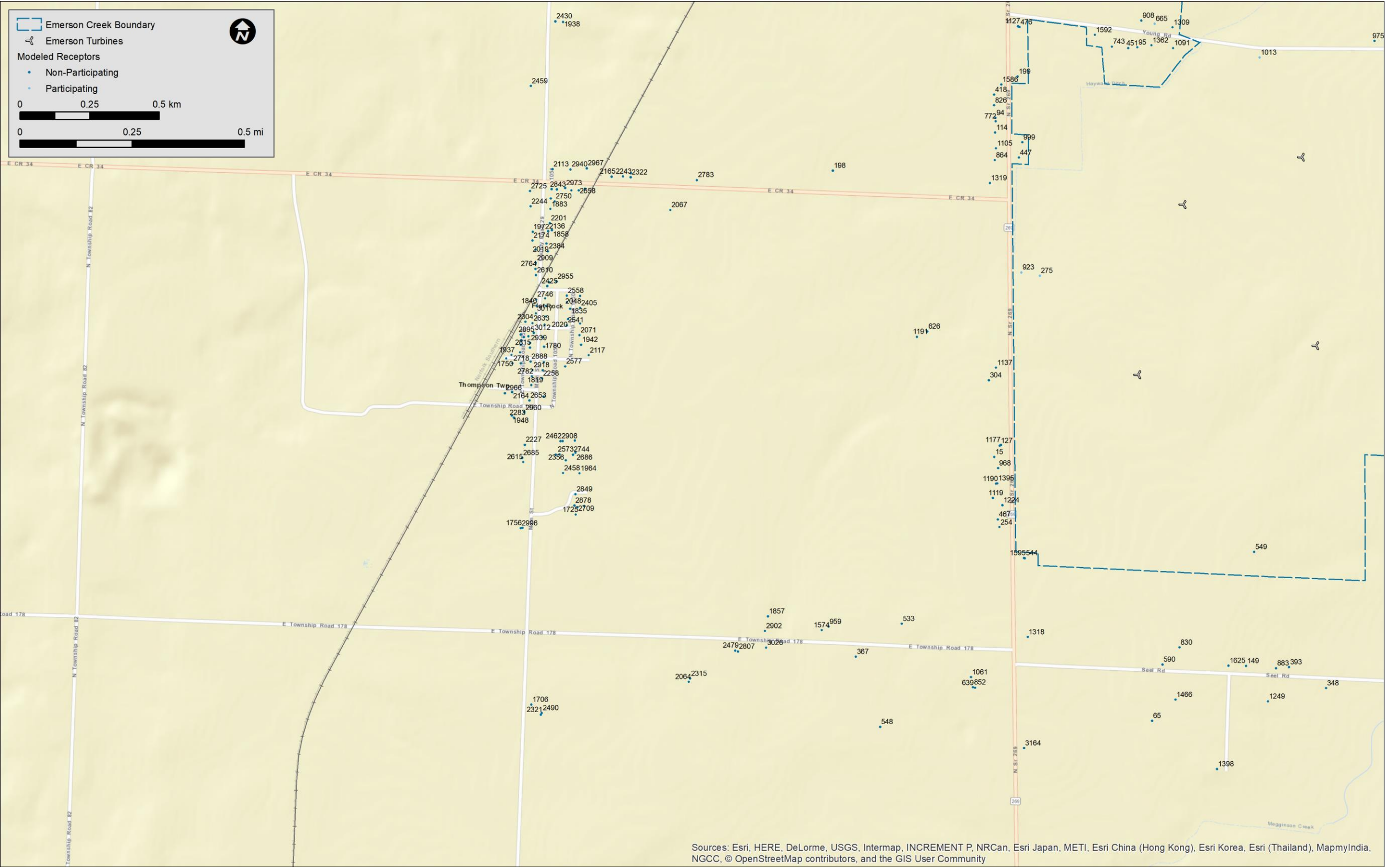


FIGURE 64: MODELED RECEPTOR MAP (FLAT ROCK AREA)



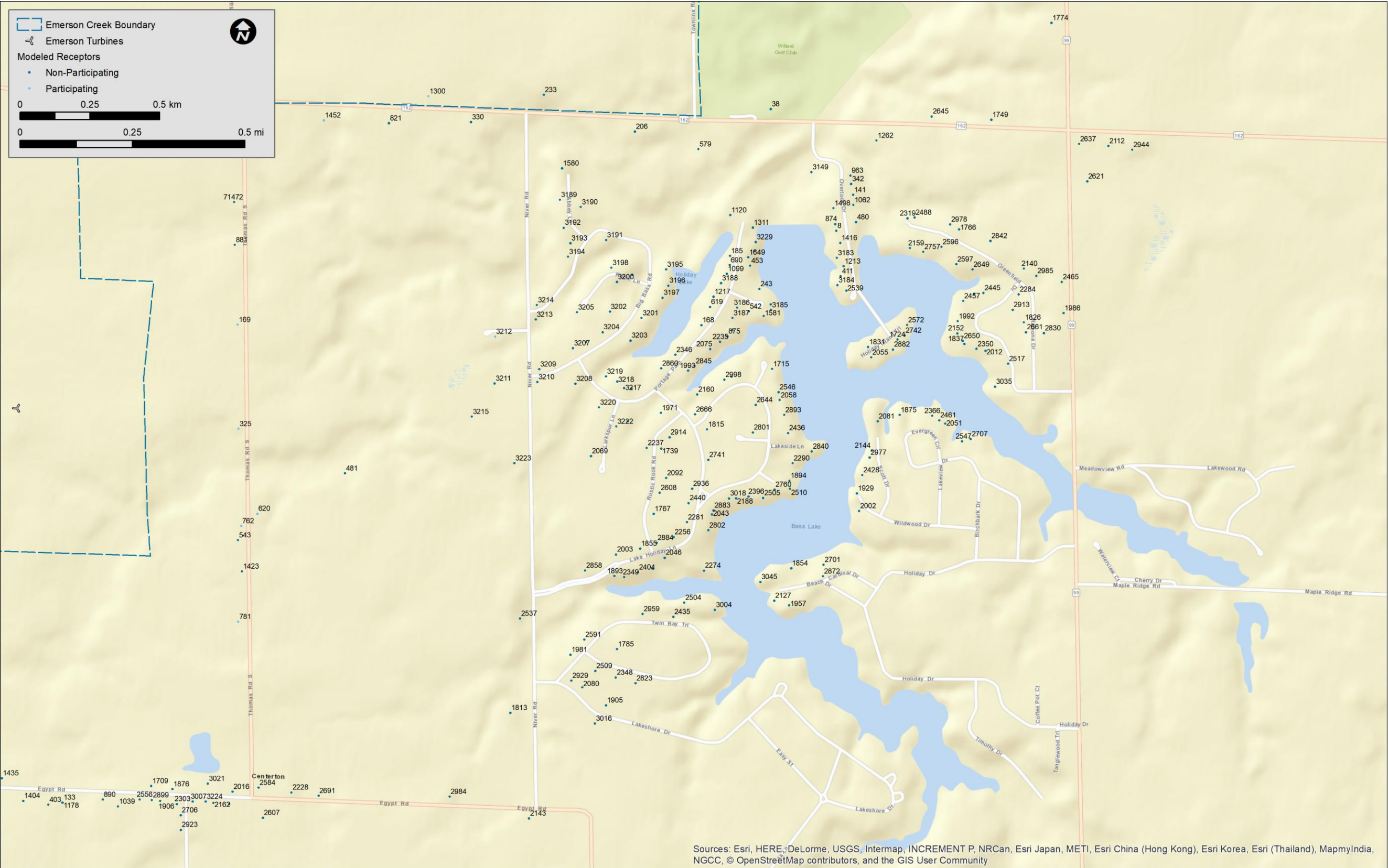


FIGURE 65: MODELED RECEPTOR MAP (HOLIDAY LAKE AREA)



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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

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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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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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Attachment 5

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

April 10, 2019

CONFIDENTIAL

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Attachment 6

Customer Engagement Package
Vestas V150-5.6 MW

October 24, 2018

CONFIDENTIAL

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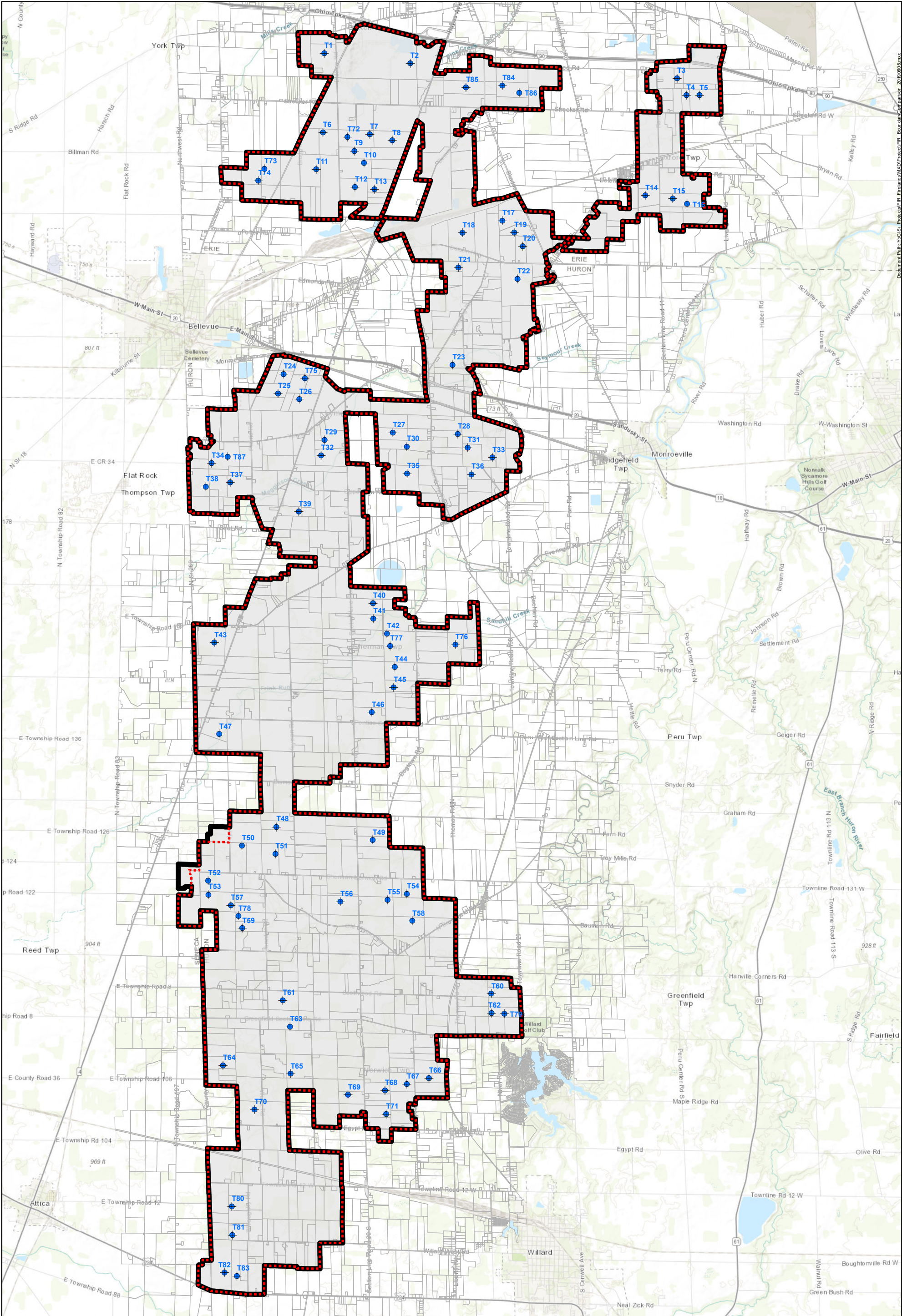
Firelands Wind, LLC
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Attachment 7

Boundary Comparison

June 5, 2019

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Emerson Creek Wind

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

00.250.511.52

Kilometers

00.250.511.52

Miles

CONFIDENTIAL

APEX
CLEAN ENERGY

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 0.0000
Units: Feet US

Date: 6/5/2019
Author: JF

Firelands Wind, LLC
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Attachment 8

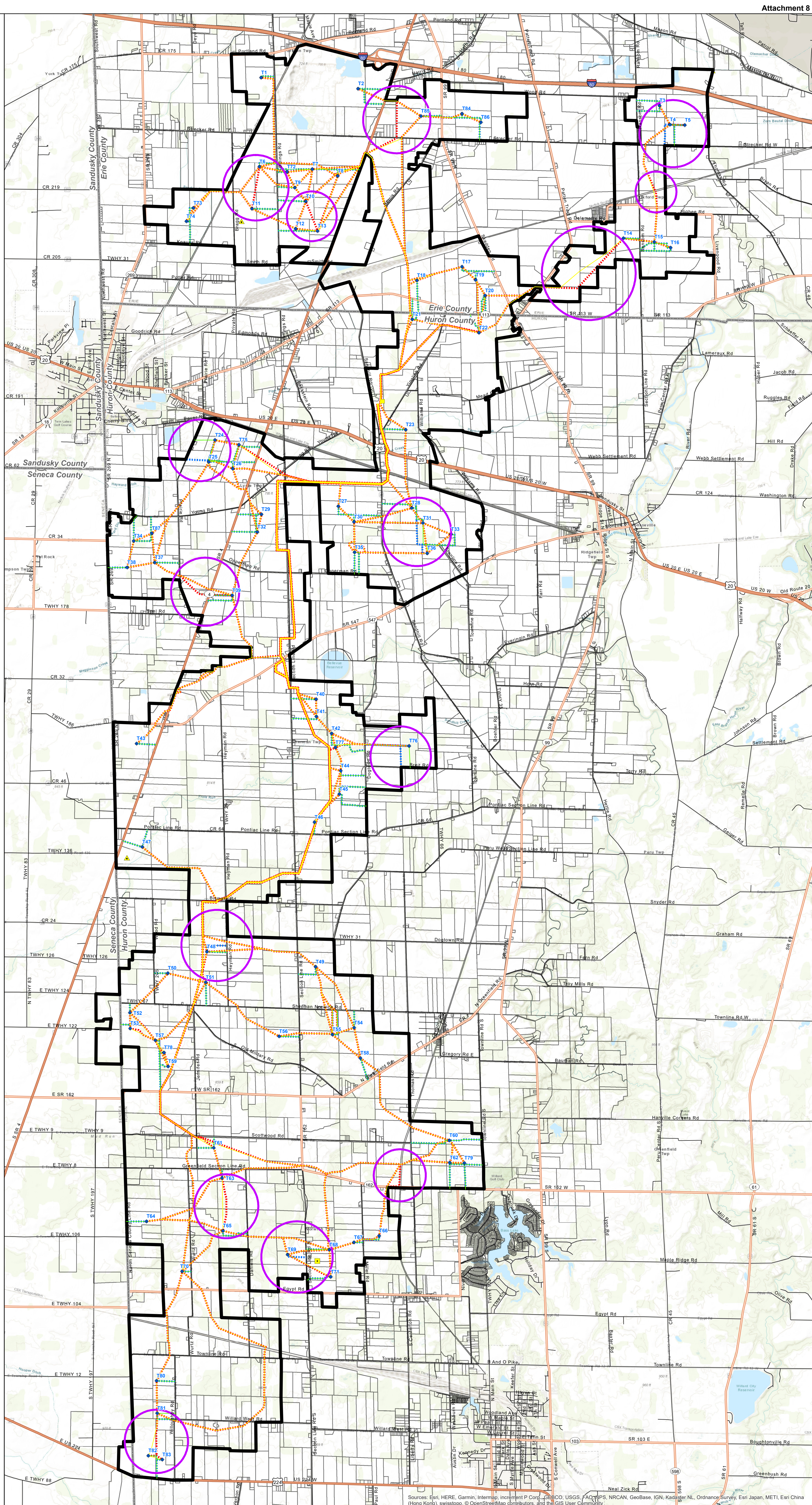
Supplement Map

July 10, 2019

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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



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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