

APPENDIX B: SOURCE INFORMATION

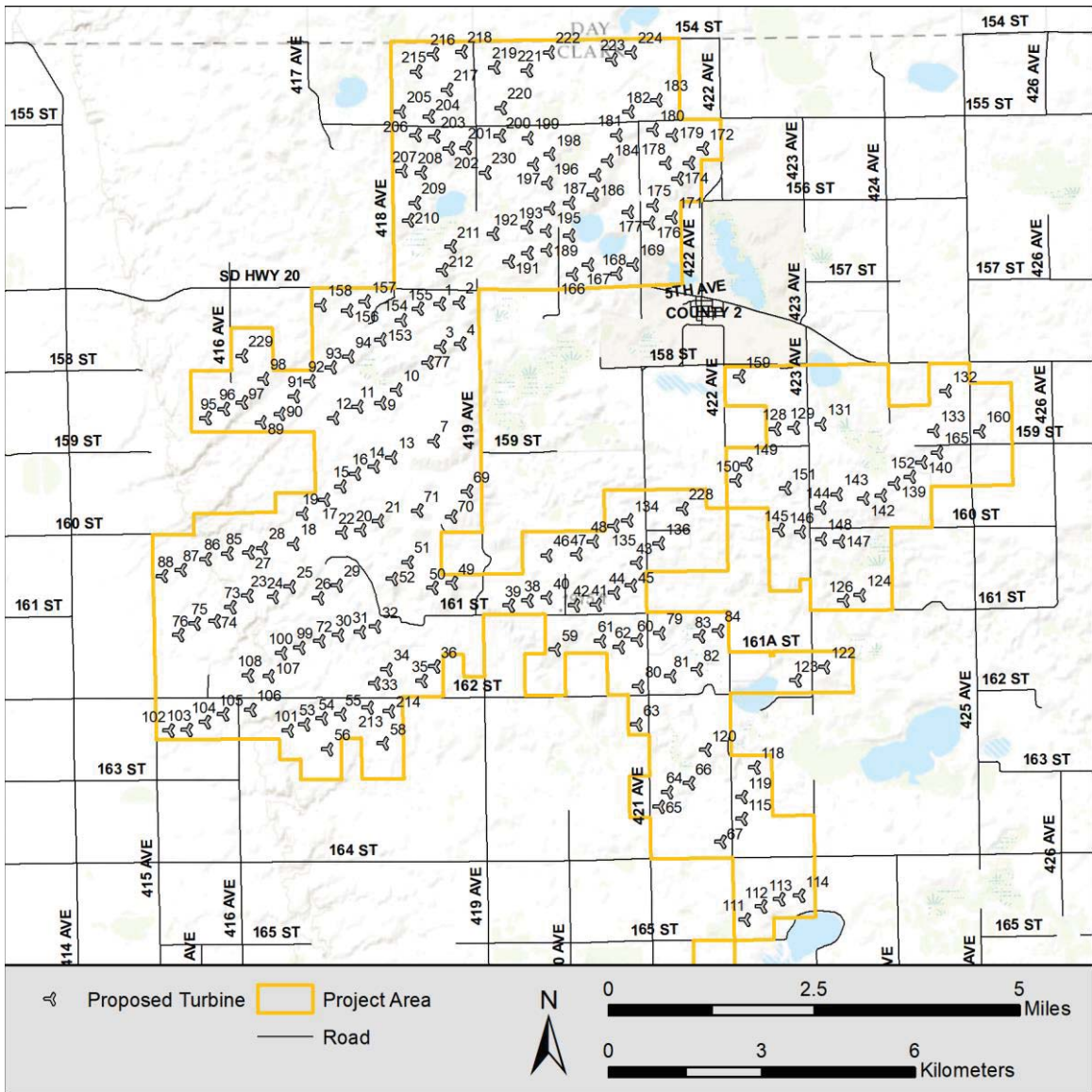


FIGURE 24: SOURCE LOCATIONS

TABLE 7: 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, 1.5 meters for grid
Search Distance	8,000 meters

TABLE 8: 1/1 OCTAVE BAND MODELED TURBINE SPECTRA (dBZ UNLESS OTHERWISE INDICATED) ^{4, 5}

Sound Source	1/1 Octave Band Center Frequency									Sum (dBA)	Sum (dBZ)
	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz		
Vestas V110 2.0 MW STE											
Vestas V110 2.0 MW STE Mode 1											
GE 2.5-116 LNTE											
Vestas V136 3.45 MW											
Gamesa G126 2.625 MW											
Transformer - Fans On	95	85	104	102	105	85	81	76	67	102.9	109.1

TABLE 9: TURBINE SOUND POWER LEVEL & LOCATIONS – GAMESA G126 2.625 MW

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
1		84	590446	4995368	645
2		84	590826	4995399	630
3		84	590462	4994532	644
4		84	590848	4994586	632
7		84	590328	4992681	656
9		84	589302	4993429	632
10		84	589605	4993683	632
11		84	588847	4993359	629
12		84	588367	4993133	627
13		84	589507	4992362	630
14		84	589170	4992179	629
15		84	588511	4991794	628
16		84	588805	4992040	627
17		84	588196	4991533	615
18		84	587588	4990666	607
19		84	587772	4991261	611
20		84	588910	4990931	612
21		84	589252	4991113	633

⁴ STE stands for Serrated Trailing Edges which are used on some turbine locations for the V110.

⁵ LNTE stand for Low Noise Trailing Edges which are used on some turbine locations for the GE 2.5-116.

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
22		84	588536	4990888	607
24		84	587184	4989617	591
25		84	587518	4989827	599
26		84	588073	4989598	606
28		84	586972	4990582	592
29		84	588449	4989849	610
30		84	588473	4988874	621
31		84	588898	4988934	618
32		84	589186	4989039	623
33		84	589184	4987926	619
34		84	589416	4988199	627
35		84	590093	4987973	625
36		84	590340	4988253	630
38		84	592169	4989549	661
39		84	591799	4989453	665
40		84	592546	4989604	661
41		84	593513	4989472	639
42		84	593095	4989457	660
43		84	594307	4990293	636
44		84	593870	4989704	639
45		84	594206	4989850	640
46		84	592549	4990440	639
47		84	593136	4990460	635
48		84	593455	4990714	630
50		84	590304	4989796	659
51		84	589815	4990311	641
52		84	589526	4989977	650
53		84	587806	4987122	594
54		84	588146	4987232	603
55		84	588519	4987316	606
59		84	592709	4988584	656
60		84	594328	4988774	633
61		84	593605	4988756	640
62		84	593971	4988637	636

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
63		84	594313	4987114	651
64		84	594920	4985793	651
65		84	594750	4985503	653
66		84	595331	4985968	641
67		84	595952	4984823	649
69		84	590976	4991691	666
70		84	590678	4991196	658
71		84	590011	4991312	653
72		84	588098	4988758	600
77		84	590206	4994221	641
79		84	594767	4988909	634
80		84	594341	4987870	642
81		84	594979	4988071	635
82		84	595484	4988193	631
84		84	595898	4988956	628
89		84	586955	4993047	616
90		84	587315	4993213	617
91		84	587601	4993558	619
92		84	587911	4993856	621
93		84	588322	4994123	627
94		84	588666	4994332	628
95		84	585865	4993126	604
96		84	586215	4993311	595
97		84	586571	4993438	612
98		84	586999	4993901	620
99		84	587704	4988626	589
100		84	587352	4988518	591
101		84	587479	4987004	585
115		84	596357	4985266	641
118		84	596610	4986281	623
119		84	596366	4985696	639
120		84	595653	4986617	632
124		84	598681	4989657	632
126		84	598364	4989547	633

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
134		84	594133	4991122	638
135		84	593856	4991014	627
136		84	594748	4990672	641
139		84	599358	4991855	635
141		84	599097	4991615	636
142		84	598762	4991547	651
143		84	598230	4991636	643
144		84	597909	4991376	643
145		84	597089	4990932	641
146		84	597509	4990899	639
147		84	598283	4990708	631
148		84	597921	4990759	625
151		84	597212	4991751	657
152		84	599674	4991977	631
153		84	589293	4994666	628
154		84	589703	4995052	635
155		84	590023	4995269	630
156		84	588641	4995236	630
157		84	588989	4995412	631
158		84	588119	4995351	634
166		84	593060	4995948	653
167		84	593367	4996137	656
168		84	593924	4995957	663
169		84	594237	4996145	654
171		84	595004	4997070	651
172		84	595600	4998414	648
173		84	595333	4998127	651
174		84	595107	4997820	660
175		84	594636	4997307	659
176		84	594557	4996962	655
177		84	594145	4997168	647
178		84	594884	4998127	661
179		84	595007	4998682	659
180		84	594629	4998778	648

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
181		84	593925	4998677	653
182		84	594154	4999135	655
183		84	594707	4999365	655
184		84	593745	4998184	661
185		84	593500	4997892	660
186		84	593460	4997515	660
188		84	592997	4996708	645
189		84	592551	4996429	652
190		84	592161	4996366	649
191		84	591793	4996200	645
192		84	591487	4996743	644
193		84	592148	4996870	653
194		84	592535	4996808	655
195		84	592603	4997246	655
196		84	592552	4997736	654
197		84	592286	4998107	654
198		84	592607	4998308	655
199		84	592182	4998619	646
200		84	591617	4998660	648
201		84	590962	4998433	641
202		84	590624	4998412	648
203		84	590344	4998650	648
204		84	590233	4999047	649
205		84	589680	4999142	653
206		84	589971	4998678	649
211		84	590664	4996490	639
212		84	590497	4996037	647
213		84	589046	4987452	614
214		84	589469	4987379	621
220		84	591643	4999214	653
229		84	586577	4994352	619
230		84	591342	4997941	633
Transformer 1	102.9	2.5	590756	4993157	574

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
Transformer 2	102.9	2.5	590723	4993159	573

TABLE 10: TURBINE SOUND POWER LEVEL & LOCATIONS – GE 2.5-116 LNTE

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
1		90	590446	4995368	651
2		90	590826	4995399	636
3		90	590462	4994532	650
4		90	590848	4994586	638
7		90	590328	4992681	662
9		90	589302	4993429	638
10		90	589605	4993683	638
11		90	588847	4993359	635
12		90	588367	4993133	633
13		90	589507	4992362	636
14		90	589170	4992179	635
15		90	588511	4991794	634
16		90	588805	4992040	633
17		90	588196	4991533	621
18		90	587588	4990666	613
19		90	587772	4991261	617
20		90	588910	4990931	618
21		90	589252	4991113	639
22		90	588536	4990888	613
24		90	587184	4989617	597
25		90	587518	4989827	605
26		90	588073	4989598	612
27		90	586705	4990500	596
28		90	586972	4990582	598
29		90	588449	4989849	616
30		90	588473	4988874	627
31		90	588898	4988934	624

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
32		90	589186	4989039	629
33		90	589184	4987926	625
34		90	589416	4988199	633
35		90	590093	4987973	631
36		90	590340	4988253	636
38		90	592169	4989549	667
39		90	591799	4989453	671
40		90	592546	4989604	667
41		90	593513	4989472	645
42		90	593095	4989457	666
43		90	594307	4990293	642
44		90	593870	4989704	645
45		90	594206	4989850	646
46		90	592549	4990440	645
47		90	593136	4990460	641
48		90	593455	4990714	636
49		90	590688	4989888	668
50		90	590304	4989796	665
51		90	589815	4990311	647
52		90	589526	4989977	656
53		90	587806	4987122	600
54		90	588146	4987232	609
55		90	588519	4987316	612
59		90	592709	4988584	662
60		90	594328	4988774	639
61		90	593605	4988756	646
62		90	593971	4988637	642
63		90	594313	4987114	657
64		90	594920	4985793	657
65		90	594750	4985503	659
66		90	595331	4985968	647
67		90	595952	4984823	655
69		90	590976	4991691	672
70		90	590678	4991196	664

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
71		90	590011	4991312	659
72		90	588098	4988758	606
77		90	590206	4994221	647
79		90	594767	4988909	640
80		90	594341	4987870	648
89		90	586955	4993047	622
90		90	587315	4993213	623
91		90	587601	4993558	625
92		90	587911	4993856	627
93		90	588322	4994123	633
94		90	588666	4994332	634
95		90	585865	4993126	610
96		90	586215	4993311	601
97		90	586571	4993438	618
98		90	586999	4993901	626
99		90	587704	4988626	595
100		90	587352	4988518	597
101		90	587479	4987004	591
107		90	587104	4988070	596
108		90	586692	4988081	575
115		90	596357	4985266	647
118		90	596610	4986281	629
119		90	596366	4985696	645
120		90	595653	4986617	638
122		90	597991	4988250	636
123		90	597417	4987982	633
134		90	594133	4991122	644
135		90	593856	4991014	633
136		90	594748	4990672	647
139		90	599358	4991855	641
141		90	599097	4991615	642
142		90	598762	4991547	657
143		90	598230	4991636	649
144		90	597909	4991376	649

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
145		90	597089	4990932	647
146		90	597509	4990899	645
147		90	598283	4990708	637
148		90	597921	4990759	631
149		90	596457	4992229	636
150		90	596239	4991904	635
151		90	597212	4991751	663
152		90	599674	4991977	637
153		90	589293	4994666	634
154		90	589703	4995052	641
155		90	590023	4995269	636
156		90	588641	4995236	636
157		90	588989	4995412	637
158		90	588119	4995351	640
166		90	593060	4995948	659
167		90	593367	4996137	662
168		90	593924	4995957	669
169		90	594237	4996145	660
171		90	595004	4997070	657
172		90	595600	4998414	654
173		90	595333	4998127	657
174		90	595107	4997820	666
175		90	594636	4997307	665
176		90	594557	4996962	661
177		90	594145	4997168	653
178		90	594884	4998127	667
179		90	595007	4998682	665
180		90	594629	4998778	654
181		90	593925	4998677	659
182		90	594154	4999135	661
183		90	594707	4999365	661
184		90	593745	4998184	667
185		90	593500	4997892	666
186		90	593460	4997515	666

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
187		90	592998	4997353	649
188		90	592997	4996708	651
189		90	592551	4996429	658
190		90	592161	4996366	655
191		90	591793	4996200	651
192		90	591487	4996743	650
193		90	592148	4996870	659
194		90	592535	4996808	661
195		90	592603	4997246	661
196		90	592552	4997736	660
197		90	592286	4998107	660
198		90	592607	4998308	661
199		90	592182	4998619	652
200		90	591617	4998660	654
201		90	590962	4998433	647
202		90	590624	4998412	654
203		90	590344	4998650	654
204		90	590233	4999047	655
205		90	589680	4999142	659
206		90	589971	4998678	655
207		90	589710	4997974	642
208		90	590076	4997946	640
209		90	589961	4997353	645
210		90	589826	4997002	641
211		90	590664	4996490	645
212		90	590497	4996037	653
213		90	589046	4987452	620
214		90	589469	4987379	627
220		90	591643	4999214	659
229		90	586577	4994352	625
230		90	591342	4997941	639
Transformer 1	102.9	2.5	590756	4993157	574
Transformer 2	102.9	2.5	590723	4993159	573



TABLE 11: TURBINE SOUND POWER LEVEL & LOCATIONS - VESTAS V110 STE 2.0 MW

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
1		95	590446	4995368	656
2		95	590826	4995399	641
3		95	590462	4994532	655
4		95	590848	4994586	643
7		95	590328	4992681	667
9		95	589302	4993429	643
10		95	589605	4993683	643
11		95	588847	4993359	640
12		95	588367	4993133	638
13		95	589507	4992362	641
14		95	589170	4992179	640
15		95	588511	4991794	639
16		95	588805	4992040	638
17		95	588196	4991533	626
18		95	587588	4990666	618
19		95	587772	4991261	622
20		95	588910	4990931	623
21		95	589252	4991113	644
22		95	588536	4990888	618
23		95	586676	4989647	593
24		95	587184	4989617	602
25		95	587518	4989827	610
26		95	588073	4989598	617
27		95	586705	4990500	601
28		95	586972	4990582	603
29		95	588449	4989849	621
30		95	588473	4988874	632
31		95	588898	4988934	629
32		95	589186	4989039	634
33		95	589184	4987926	630
34		95	589416	4988199	638

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
35		95	590093	4987973	636
36		95	590340	4988253	641
38		95	592169	4989549	672
39		95	591799	4989453	676
40		95	592546	4989604	672
41		95	593513	4989472	650
42		95	593095	4989457	671
43		95	594307	4990293	647
44		95	593870	4989704	650
45		95	594206	4989850	651
46		95	592549	4990440	650
47		95	593136	4990460	646
48		95	593455	4990714	641
49		95	590688	4989888	673
50		95	590304	4989796	670
51		95	589815	4990311	652
52		95	589526	4989977	661
53		95	587806	4987122	605
54		95	588146	4987232	614
55		95	588519	4987316	617
59		95	592709	4988584	667
60		95	594328	4988774	644
61		95	593605	4988756	651
62		95	593971	4988637	647
63		95	594313	4987114	662
64		95	594920	4985793	662
65		95	594750	4985503	664
66		95	595331	4985968	652
67		95	595952	4984823	660
69		95	590976	4991691	677
70		95	590678	4991196	669
71		95	590011	4991312	664
72		95	588098	4988758	611
73		95	586348	4989421	585

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
74		95	586032	4989147	574
75		95	585649	4989100	568
76		95	585322	4988872	560
77		95	590206	4994221	652
79		95	594767	4988909	645
80		95	594341	4987870	653
81		95	594979	4988071	646
82		95	595484	4988193	642
83		95	595528	4988849	635
85		95	586284	4990478	588
86		95	585866	4990367	581
87		95	585373	4990152	568
88		95	585004	4990030	557
89		95	586955	4993047	627
90		95	587315	4993213	628
91		95	587601	4993558	630
92		95	587911	4993856	632
93		95	588322	4994123	638
94		95	588666	4994332	639
95		95	585865	4993126	615
96		95	586215	4993311	606
97		95	586571	4993438	623
98		95	586999	4993901	631
99		95	587704	4988626	600
100		95	587352	4988518	602
101		95	587479	4987004	596
102		95	585141	4986998	556
103		95	585491	4987017	558
104		95	585843	4987172	564
105		95	586203	4987317	568
106		95	586733	4987406	580
107		95	587104	4988070	601
108		95	586692	4988081	580
111		95	596420	4983293	649

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
112		95	596736	4983548	659
113		95	597103	4983688	651
114		95	597486	4983760	645
115		95	596357	4985266	652
118		95	596610	4986281	634
119		95	596366	4985696	650
120		95	595653	4986617	643
124		95	598681	4989657	643
126		95	598364	4989547	644
128		95	597016	4992918	645
129		95	597377	4992940	644
131		95	597919	4993014	646
132		95	600369	4993658	647
133		95	600131	4992886	646
134		95	594133	4991122	649
135		95	593856	4991014	638
136		95	594748	4990672	652
139		95	599358	4991855	646
140		95	599889	4992270	641
141		95	599097	4991615	647
142		95	598762	4991547	662
143		95	598230	4991636	654
144		95	597909	4991376	654
145		95	597089	4990932	652
146		95	597509	4990899	650
147		95	598283	4990708	642
148		95	597921	4990759	636
149		95	596457	4992229	641
150		95	596239	4991904	640
151		95	597212	4991751	668
152		95	599674	4991977	642
153		95	589293	4994666	639
154		95	589703	4995052	646
155		95	590023	4995269	641

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
156		95	588641	4995236	641
157		95	588989	4995412	642
158		95	588119	4995351	645
159		95	596309	4993942	642
160		95	601023	4992868	644
165		95	600199	4992455	647
166		95	593060	4995948	664
167		95	593367	4996137	667
168		95	593924	4995957	674
169		95	594237	4996145	665
171		95	595004	4997070	662
172		95	595600	4998414	659
173		95	595333	4998127	662
174		95	595107	4997820	671
175		95	594636	4997307	670
176		95	594557	4996962	666
177		95	594145	4997168	658
178		95	594884	4998127	672
179		95	595007	4998682	670
180		95	594629	4998778	659
181		95	593925	4998677	664
182		95	594154	4999135	666
183		95	594707	4999365	666
184		95	593745	4998184	672
185		95	593500	4997892	671
186		95	593460	4997515	671
187		95	592998	4997353	654
188		95	592997	4996708	656
189		95	592551	4996429	663
190		95	592161	4996366	660
191		95	591793	4996200	656
192		95	591487	4996743	655
193		95	592148	4996870	664
194		95	592535	4996808	666

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
195		95	592603	4997246	666
196		95	592552	4997736	665
197		95	592286	4998107	665
198		95	592607	4998308	666
199		95	592182	4998619	657
200		95	591617	4998660	659
201		95	590962	4998433	652
202		95	590624	4998412	659
203		95	590344	4998650	659
204		95	590233	4999047	660
205		95	589680	4999142	664
206		95	589971	4998678	660
207		95	589710	4997974	647
208		95	590076	4997946	645
209		95	589961	4997353	650
210		95	589826	4997002	646
211		95	590664	4996490	650
212		95	590497	4996037	658
213		95	589046	4987452	625
214		95	589469	4987379	632
215		95	589983	4999926	644
216		95	590313	5000267	645
217		95	590592	4999569	656
218		95	590876	5000318	660
219		95	591520	5000003	657
220		95	591643	4999214	664
221		95	592152	4999951	662
222		95	592588	5000305	654
223		95	593819	5000160	652
224		95	594210	5000303	651
228		95	595196	4991353	653
229		95	586577	4994352	630
230		95	591342	4997941	644

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
Transformer 1	102.9	2.5	590756	4993157	574
Transformer 2	102.9	2.5	590723	4993159	573

TABLE 12: TURBINE SOUND POWER LEVEL & LOCATIONS - VESTAS V136 3.45 MW

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
1		82	590446	4995368	643
2		82	590826	4995399	628
3		82	590462	4994532	642
4		82	590848	4994586	630
7		82	590328	4992681	654
9		82	589302	4993429	630
10		82	589605	4993683	630
11		82	588847	4993359	627
12		82	588367	4993133	625
13		82	589507	4992362	628
14		82	589170	4992179	627
15		82	588511	4991794	626
16		82	588805	4992040	625
17		82	588196	4991533	613
18		82	587588	4990666	605
19		82	587772	4991261	609
20		82	588910	4990931	610
21		82	589252	4991113	631
22		82	588536	4990888	605
30		82	588473	4988874	619
31		82	588898	4988934	616
32		82	589186	4989039	621
33		82	589184	4987926	617
34		82	589416	4988199	625

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
35		82	590093	4987973	623
36		82	590340	4988253	628
38		82	592169	4989549	659
39		82	591799	4989453	663
40		82	592546	4989604	659
42		82	593095	4989457	658
50		82	590304	4989796	657
51		82	589815	4990311	639
52		82	589526	4989977	648
59		82	592709	4988584	654
60		82	594328	4988774	631
61		82	593605	4988756	638
62		82	593971	4988637	634
63		82	594313	4987114	649
64		82	594920	4985793	649
65		82	594750	4985503	651
66		82	595331	4985968	639
67		82	595952	4984823	647
69		82	590976	4991691	664
70		82	590678	4991196	656
71		82	590011	4991312	651
77		82	590206	4994221	639
79		82	594767	4988909	632
80		82	594341	4987870	640
81		82	594979	4988071	633
82		82	595484	4988193	629
83		82	595528	4988849	622
84		82	595898	4988956	626
89		82	586955	4993047	614
90		82	587315	4993213	615
91		82	587601	4993558	617
92		82	587911	4993856	619
93		82	588322	4994123	625
94		82	588666	4994332	626

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
115		82	596357	4985266	639
118		82	596610	4986281	621
119		82	596366	4985696	637
120		82	595653	4986617	630
136		82	594748	4990672	639
139		82	599358	4991855	633
141		82	599097	4991615	634
142		82	598762	4991547	649
143		82	598230	4991636	641
144		82	597909	4991376	641
145		82	597089	4990932	639
146		82	597509	4990899	637
147		82	598283	4990708	629
148		82	597921	4990759	623
152		82	599674	4991977	629
153		82	589293	4994666	626
154		82	589703	4995052	633
155		82	590023	4995269	628
156		82	588641	4995236	628
157		82	588989	4995412	629
158		82	588119	4995351	632
166		82	593060	4995948	651
167		82	593367	4996137	654
168		82	593924	4995957	661
169		82	594237	4996145	652
171		82	595004	4997070	649
172		82	595600	4998414	646
173		82	595333	4998127	649
174		82	595107	4997820	658
175		82	594636	4997307	657
176		82	594557	4996962	653
177		82	594145	4997168	645
178		82	594884	4998127	659
179		82	595007	4998682	657

Source ID	Modeled Sound Power (dBA)	Relative Height (m)	Coordinates (UTM NAD 83 Z14N)		
			X (m)	Y (m)	Z (m)
180		82	594629	4998778	646
181		82	593925	4998677	651
182		82	594154	4999135	653
183		82	594707	4999365	653
184		82	593745	4998184	659
185		82	593500	4997892	658
186		82	593460	4997515	658
188		82	592997	4996708	643
189		82	592551	4996429	650
190		82	592161	4996366	647
191		82	591793	4996200	643
192		82	591487	4996743	642
193		82	592148	4996870	651
194		82	592535	4996808	653
195		82	592603	4997246	653
196		82	592552	4997736	652
197		82	592286	4998107	652
198		82	592607	4998308	653
207		82	589710	4997974	634
208		82	590076	4997946	632
209		82	589961	4997353	637
210		82	589826	4997002	633
211		82	590664	4996490	637
212		82	590497	4996037	645
Transformer 1	102.9	2.5	590756	4993157	574
Transformer 2	102.9	2.5	590723	4993159	573