



June 22, 2023

Mr. Jerry Krawiec
Environmental Engineer
Air Quality Division
EGLE, Air Quality Division, Detroit District
3058 West Grand Boulevard, Suite 2-300
Detroit, Michigan 48202

Certified Mail:

Re: US Silica – Rockwood Plant; Violation Notice, May 22, 2023

Dear Mr. Krawiec,

On behalf of US Silica (the “Company”) the following responds to EGLE’s above-referenced Rule 901 Violation Notice (VN) alleging “Detection of fallout beyond the facility’s property line, attributable to the facility, of sufficient magnitude as to constitute an unreasonable interference with comfortable enjoyment of life and property.” Thank you for issuing us a short extension to respond until June 26, 2023.

The Company asserts that April 12, 2023, complaint (dust on neighboring residence’s car) that spurred EGLE’s investigation and this VN, was caused by unusually high winds that occurred on April 12-14, 2023, where sustained wind gusts of over 29 mph were measured (see attached meteorological data providing wind speeds for these dates).

Like prior complaints, these alleged “deposition” events are infrequent and episodic and ultimately beyond the Company’s reasonable control. The Company must note that deposition samples taken could have easily originated in whole or in part from nearby roads, farms, and other businesses also upwind of the Crystal Crossings Subdivision and these third-party sources are of course not US Silica’s responsibility.

Although the Company respectfully questions that the conditions observed on April 12, 2023, constitute an “unreasonable interference with comfortable enjoyment ... of property”, in an effort to amicably resolve this concern, the Company is taking and has been taking reasonable measures to minimize fugitive dust emissions from its Rockwood facility including:

- Implementing a “wheel wash” procedure for facility vehicles;
- Biosoyl application to material piles;
- Purchase and use of a water truck to water material piles and roads;
- Installation of a sprinkler system for the silo;
- Tree planting on facility berms (for screening);
- Storing materials in shorter piles;
- Limiting the “drop height” of materials moved at the facility;
- Planting grass to stabilize soils at select locations at the facility;

20837 Huron River Drive, Rockwood, Michigan 48173

phone 1 (734) 379-9672 *web* www.ussilica.com

- Monitoring that the "tailings pond" is covered in water to prevent dust.

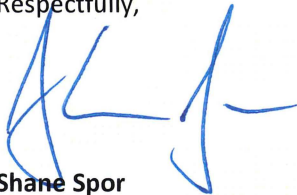
Despite these continued steps to prevent fugitive emissions, and the consistent implementation of the Company's "Nuisance Minimization Plan: Fugitive Dust" which is part of the Company's Permit to Install, US Silica cannot control high wind events, other isolated occurrences or upsets. The concept that unusually high winds may excuse compliance is recognized in both Michigan air regulations and EPA guidance. See MI Rule 324.5524(2) exempting storage pile opacity requirements when wind speeds are in excess of 25 miles per hours. See also, Memorandum from the EPA's Assistant Administrator for Air and Radiation to EPA Regional Air Directors entitled "Areas Affected by Natural Events," dated May 30, 1996 (EPA's Natural Events Policy)(specific PM exceedances due to natural events, such as unusually high winds, may be discounted or excluded entirely from decisions regarding an area's air quality status in appropriate circumstances).

The Company also notes that it is not aware of any actual PM emission or opacity exceedances that have occurred or been alleged under the Company's Permit to Install and has received no indication that the Company has failed to follow the "Nuisance Minimization Plan: Fugitive Dust" approved by EGLE.

The Company submits this VN Response in an attempt to amicably resolve the issues raised in the VN. Based on the above circumstances and voluntary responses by the Company, we respectfully request that the May 22 VN be withdrawn. As such, nothing contained herein should be deemed as an admission of any violation and the Company reserves all its rights, privileges and defenses.

If you have any questions, or believe a meeting would be helpful, please contact me at 734-379-9672 or via email at spor@ussilica.com.

Respectfully,



Shane Spor
Plant Manager

cc: David Olchawa, Director of Environmental
Charlie Denton, Barnes & Thornburg LLP



Wind Data - Rockwood, MI

Date/Time	Outdoor Temperature	Wind Speed (mph)	Wind Gust (mph)	Wind Direction
4/12/2023 10:00	70.3	0	0	353
4/12/2023 10:05	70.3	0	0	353
4/12/2023 10:10	70.3	0	0	353
4/12/2023 10:15	66.7	4	12.5	28
4/12/2023 10:21	66.4	12.8	17.2	283
4/12/2023 10:25	66.4	14.1	21.7	285
4/12/2023 10:30	66.7	16.8	21.7	287
4/12/2023 10:35	66.9	6	18.3	271
4/12/2023 10:40	67.3	17.7	19.5	284
4/12/2023 10:45	67.6	11.6	17.2	288
4/12/2023 10:50	67.8	16.8	20.6	261
4/12/2023 10:55	68.2	5.1	20.6	297
4/12/2023 11:00	68.5	12.8	21.7	288
4/12/2023 11:05	69.1	14.1	15.9	300
4/12/2023 11:10	69.6	13.2	17.2	280
4/12/2023 11:15	69.6	10.1	18.3	316
4/12/2023 11:20	70	11.9	15.9	291
4/12/2023 11:25	70.5	9.2	12.5	289
4/12/2023 11:30	70.9	13.7	18.3	296
4/12/2023 11:35	70.7	9.8	17.2	265
4/12/2023 11:40	71.4	12.5	18.3	26
4/12/2023 11:45	71.8	5.4	13.7	184
4/12/2023 11:50	71.4	13.7	22.8	294
4/12/2023 11:55	71.8	15.2	20.6	283
4/12/2023 12:00	72.1	10.7	18.3	283
4/12/2023 12:05	72.7	7.4	15.9	331
4/12/2023 12:10	72.5	7.8	19.5	277
4/12/2023 12:15	72.9	16.6	18.3	293
4/12/2023 12:20	73.6	8.3	14.8	256
4/12/2023 12:25	73.8	5.4	19.5	335
4/12/2023 12:30	74.3	15.4	20.6	289
4/12/2023 12:35	73.9	9.2	20.6	269
4/12/2023 12:40	74.3	15.4	22.8	288
4/12/2023 12:45	74.3	10.1	15.9	239
4/12/2023 12:50	75.2	5.8	13.7	278
4/12/2023 12:55	75.2	15.9	20.6	279
4/12/2023 13:00	74.1	18.8	28.6	302
4/12/2023 13:05	75.6	5.6	18.3	301
4/12/2023 13:10	75.2	17.4	22.8	295
4/12/2023 13:15	75	5.8	23.9	190
4/12/2023 13:20	76.1	13.4	23.9	275
4/12/2023 13:25	75.6	16.3	27.3	279
4/12/2023 13:30	75.6	11.2	20.6	201
4/12/2023 13:35	75.7	8.5	20.6	225

Wind Data - Rockwood, MI

4/12/2023 13:40	75.7	13.9	19.5	186
4/12/2023 13:45	76.6	4.9	13.7	303
4/12/2023 13:50	76.3	8.7	25.1	217
4/12/2023 13:55	76.6	12.1	18.3	307
4/12/2023 14:00	76.1	13.9	27.3	244
4/12/2023 14:05	76.3	10.7	25.1	280
4/12/2023 14:10	76.6	12.5	18.3	287
4/12/2023 14:15	77.4	7.4	20.6	109
4/12/2023 14:20	76.8	6.5	26.2	150
4/12/2023 14:25	77	9.8	19.5	249
4/12/2023 14:30	77.4	15.2	20.6	295
4/12/2023 14:35	77.5	21.5	23.9	284
4/12/2023 14:40	77.7	19	22.8	291
4/12/2023 14:45	77.4	3.4	19.5	262
4/12/2023 14:50	77.5	8.3	20.6	338
4/12/2023 14:55	77.5	16.1	25.1	61
4/12/2023 15:00	77.5	27.3	32	296
4/12/2023 15:05	77.4	14.8	29.8	101
4/12/2023 15:10	77.7	27.3	29.8	310
4/12/2023 15:15	77.9	8.3	27.3	157
4/12/2023 15:20	77.9	8.5	29.8	160
4/12/2023 15:25	78.1	20.4	27.3	297
4/12/2023 15:30	78.1	6.3	21.7	269
4/12/2023 15:35	78.3	6	18.3	299
4/12/2023 15:40	78.3	10.5	21.7	308
4/12/2023 15:45	77.9	11.4	19.5	342
4/12/2023 15:50	78.1	12.3	23.9	299
4/12/2023 15:55	77.5	25.3	30.9	295
4/12/2023 16:00	78.4	12.3	22.8	318
4/12/2023 16:05	77.9	25.1	32	285
4/12/2023 16:10	78.4	8.1	26.2	289
4/12/2023 16:15	78.8	20.4	29.8	265
4/12/2023 16:20	78.3	26.8	33.1	324
4/12/2023 16:26	78.3	12.8	19.5	306
4/12/2023 16:30	78.3	22.6	29.8	286
4/12/2023 16:35	78.1	18.3	33.1	256
4/12/2023 16:40	78.6	14.3	23.9	282
4/12/2023 16:45	79	18.6	26.2	343
4/12/2023 16:50	78.4	14.8	22.8	280
4/12/2023 16:55	78.3	20.6	26.2	285
4/12/2023 17:00	78.4	10.5	27.3	342
4/12/2023 17:05	78.4	19.2	29.8	302
4/12/2023 17:10	78.4	11.2	22.8	296
4/12/2023 17:15	79	12.8	25.1	284
4/12/2023 17:20	78.6	7.4	14.8	162
4/12/2023 17:25	78.8	19	26.2	268
4/12/2023 17:30	78.8	11.9	19.5	72

Wind Data - Rockwood, MI

4/12/2023 17:35	79	6.5	15.9	327
4/12/2023 17:40	78.8	14.8	25.1	296
4/12/2023 17:45	78.6	16.1	22.8	282
4/12/2023 17:50	79.2	6	9.2	258
4/12/2023 17:55	78.8	16.8	27.3	284
4/12/2023 18:00	78.6	13.7	27.3	244
4/12/2023 18:05	79	11.9	19.5	292
4/12/2023 18:10	78.6	7.4	21.7	270
4/12/2023 18:15	77.9	3.1	18.3	189
4/12/2023 18:20	79	4.9	12.5	84
4/12/2023 18:25	78.8	3.8	10.3	55
4/12/2023 18:30	78.8	4	9.2	302
4/12/2023 18:35	78.3	8.9	18.3	72
4/12/2023 18:40	78.4	7.6	25.1	299
4/12/2023 18:45	78.4	4.3	15.9	332
4/12/2023 18:50	78.6	9.2	14.8	284
4/12/2023 18:55	78.3	3.8	17.2	282
4/12/2023 19:00	78.3	12.1	23.9	278
4/12/2023 19:05	78.1	10.7	13.7	318
4/12/2023 19:10	77.7	9.4	12.5	284
4/12/2023 19:15	77.9	3.8	13.7	250
4/12/2023 19:20	77.7	7.6	15.9	283
4/12/2023 19:25	77.5	3.6	14.8	230
4/12/2023 19:30	77.5	8.3	10.3	293
4/12/2023 19:35	77.4	3.4	14.8	244
4/12/2023 19:40	77.2	4.3	11.4	183
4/12/2023 19:45	76.8	4.3	13.7	289
4/12/2023 19:50	76.6	9.6	11.4	333
4/12/2023 19:55	76.3	5.4	9.2	197
4/12/2023 20:00	75.9	2.9	6.9	276
4/12/2023 20:05	75.6	2.7	4.5	265
4/12/2023 20:10	75.2	1.3	5.8	223
4/12/2023 20:15	74.7	1.8	4.5	189
4/12/2023 20:20	74.3	0.2	2.2	263
4/12/2023 20:25	73.9	0.9	1.1	219
4/12/2023 20:30	73.8	2	3.4	289
4/12/2023 20:35	73.4	0.9	3.4	263
4/12/2023 20:40	73.4	0.9	3.4	251
4/12/2023 20:45	73.2	1.1	3.4	298
4/12/2023 20:50	73.2	0.9	6.9	220
4/12/2023 20:55	72.9	2.5	6.9	281
4/12/2023 21:00	72.9	1.3	3.4	280
4/12/2023 21:05	72.5	1.6	3.4	239
4/12/2023 21:10	72.7	1.3	5.8	263
4/12/2023 21:15	72.7	0.5	4.5	149
4/12/2023 21:20	72.5	1.8	3.4	196
4/12/2023 21:25	72.1	1.8	4.5	179

Wind Data - Rockwood, MI

4/12/2023 21:31	72.1	0.9	3.4	198
4/12/2023 21:35	71.8	1.8	4.5	222
4/12/2023 21:40	71.6	1.3	4.5	201
4/12/2023 21:45	71.2	2.9	3.4	255
4/12/2023 21:50	71.2	1.1	5.8	274
4/12/2023 21:55	70.7	1.8	3.4	205
4/12/2023 22:00	70.5	0.9	4.5	240
4/12/2023 22:05	70.5	1.8	4.5	220
4/12/2023 22:10	70.5	0.9	2.2	299
4/12/2023 22:15	70.2	1.1	5.8	205
4/12/2023 22:20	70	1.8	4.5	267
4/12/2023 22:25	70	2.7	5.8	168
4/12/2023 22:30	70	2	4.5	278
4/12/2023 22:35	69.8	2.9	5.8	235
4/12/2023 22:40	69.8	1.1	4.5	214
4/12/2023 22:45	69.8	3.6	6.9	256
4/12/2023 22:50	69.6	1.3	3.4	286
4/12/2023 22:55	69.6	5.4	8.1	203
4/12/2023 23:00	69.6	2.5	4.5	217
4/12/2023 23:05	69.6	2.9	5.8	281
4/12/2023 23:10	69.3	1.6	5.8	311
4/12/2023 23:15	69.3	2.7	6.9	307
4/12/2023 23:20	68.9	2.2	6.9	261
4/12/2023 23:25	68.9	3.8	6.9	285
4/12/2023 23:30	68.7	1.3	6.9	289
4/12/2023 23:35	68.5	0.9	8.1	275
4/12/2023 23:40	68.5	1.1	8.1	235
4/12/2023 23:45	68.5	1.8	5.8	246
4/12/2023 23:50	68.4	2.5	4.5	286
4/12/2023 23:55	68.4	5.4	10.3	192
4/13/2023 0:00	68.4	5.6	10.3	282
4/13/2023 0:05	68.4	2	9.2	240
4/13/2023 0:10	68.4	1.3	8.1	191
4/13/2023 0:15	68.5	1.8	10.3	249
4/13/2023 0:20	68.5	3.8	11.4	235
4/13/2023 0:25	68.4	4.3	8.1	285
4/13/2023 0:30	68.4	3.1	9.2	283
4/13/2023 0:35	68	5.8	11.4	214
4/13/2023 0:40	68	4	11.4	288
4/13/2023 0:45	68.2	5.8	15.9	253
4/13/2023 0:50	68.2	6.5	11.4	298
4/13/2023 0:55	68.2	4	12.5	234
4/13/2023 1:00	68.2	10.5	15.9	259
4/13/2023 1:05	68	6.3	13.7	256
4/13/2023 1:10	67.8	6.5	10.3	205
4/13/2023 1:15	67.6	5.8	15.9	242
4/13/2023 1:20	67.5	5.4	13.7	272

Wind Data - Rockwood, MI

4/13/2023 1:25	67.3	6.5	15.9	260
4/13/2023 1:30	67.1	10.5	14.8	305
4/13/2023 1:35	66.9	2.9	13.7	257
4/13/2023 1:40	66.7	5.4	12.5	272
4/13/2023 1:45	66.6	8.5	14.8	268
4/13/2023 1:50	66.4	6.9	11.4	291
4/13/2023 1:55	66.2	6	9.2	186
4/13/2023 2:00	66	4.9	12.5	251
4/13/2023 2:05	65.8	2.2	13.7	294
4/13/2023 2:10	65.7	4.9	12.5	153
4/13/2023 2:15	65.5	7.6	13.7	230
4/13/2023 2:20	65.1	7.8	13.7	308
4/13/2023 2:25	65.3	3.8	14.8	254
4/13/2023 2:30	64.9	5.1	10.3	276
4/13/2023 2:36	64.8	3.8	15.9	285
4/13/2023 2:40	64.6	2.9	13.7	264
4/13/2023 2:45	64.2	4.9	11.4	204
4/13/2023 2:50	64.2	5.4	13.7	197
4/13/2023 2:55	64	5.4	13.7	244
4/13/2023 3:00	63.9	2.2	6.9	116
4/13/2023 3:05	63.7	3.4	6.9	277
4/13/2023 3:10	63.5	3.8	11.4	242
4/13/2023 3:15	63.3	2.9	8.1	276
4/13/2023 3:20	63.1	4.9	12.5	151
4/13/2023 3:25	63.3	3.8	11.4	275
4/13/2023 3:30	63.1	3.4	13.7	279
4/13/2023 3:35	63	4.9	9.2	275
4/13/2023 3:40	63	4.9	9.2	256
4/13/2023 3:45	62.8	1.8	10.3	280
4/13/2023 3:50	62.8	8.1	11.4	253
4/13/2023 3:55	62.6	4.5	9.2	297
4/13/2023 4:00	62.6	2.2	8.1	44
4/13/2023 4:05	62.4	2.9	8.1	292
4/13/2023 4:10	62.1	4	9.2	264
4/13/2023 4:15	62.1	8.1	11.4	288
4/13/2023 4:20	62.1	2.2	10.3	213
4/13/2023 4:25	61.9	7.6	10.3	269
4/13/2023 4:30	61.7	3.4	6.9	246
4/13/2023 4:35	61.5	1.6	8.1	295
4/13/2023 4:40	61.3	3.6	10.3	230
4/13/2023 4:45	61.2	2.7	9.2	320
4/13/2023 4:50	61	3.1	6.9	216
4/13/2023 4:55	60.8	2.5	10.3	183
4/13/2023 5:00	60.8	4.9	9.2	289
4/13/2023 5:05	60.6	3.1	10.3	253
4/13/2023 5:10	60.6	4	9.2	287
4/13/2023 5:15	60.6	3.6	9.2	214

Wind Data - Rockwood, MI

4/13/2023 5:20	60.4	2.2	8.1	193
4/13/2023 5:25	60.4	3.1	10.3	251
4/13/2023 5:30	60.3	4.5	11.4	202
4/13/2023 5:35	60.1	2.2	10.3	238
4/13/2023 5:40	60.3	1.1	8.1	265
4/13/2023 5:45	59.9	1.3	6.9	252
4/13/2023 5:50	59.9	3.4	8.1	275
4/13/2023 5:55	59.7	3.4	6.9	184
4/13/2023 6:00	59.7	3.4	6.9	291
4/13/2023 6:05	59.5	2.7	6.9	259
4/13/2023 6:10	59.4	4.5	8.1	258
4/13/2023 6:15	59.2	2.7	9.2	284
4/13/2023 6:20	59.2	2.5	8.1	281
4/13/2023 6:25	59	2	9.2	279
4/13/2023 6:30	59	0.9	6.9	245
4/13/2023 6:35	59	2.5	6.9	295
4/13/2023 6:40	58.8	2.2	4.5	240
4/13/2023 6:45	58.5	0.7	4.5	230
4/13/2023 6:50	58.5	3.8	6.9	282
4/13/2023 6:55	58.3	2.2	5.8	216
4/13/2023 7:00	58.3	1.3	3.4	280
4/13/2023 7:05	58.1	1.3	6.9	260
4/13/2023 7:10	58.1	0.2	2.2	264
4/13/2023 7:15	58.3	2.5	5.8	210
4/13/2023 7:20	58.1	2.5	4.5	254
4/13/2023 7:25	58.5	1.1	2.2	168
4/13/2023 7:30	58.6	0.2	3.4	189
4/13/2023 7:35	58.6	0.9	4.5	259
4/13/2023 7:41	59.2	0.9	3.4	202
4/13/2023 7:45	59.5	2.9	6.9	228
4/13/2023 7:50	59.5	0.9	4.5	10
4/13/2023 7:55	59.5	0.7	5.8	141
4/13/2023 8:00	59.7	3.6	5.8	291
4/13/2023 8:05	60.1	2	3.4	278
4/13/2023 8:10	60.4	2.2	4.5	178
4/13/2023 8:15	60.8	0.7	5.8	308
4/13/2023 8:20	61.3	2.7	5.8	251
4/13/2023 8:25	61.7	1.6	8.1	335
4/13/2023 8:30	61.9	2.2	9.2	151
4/13/2023 8:35	62.2	2.2	5.8	202
4/13/2023 8:40	62.2	6.9	10.3	154
4/13/2023 8:45	62.6	2.5	6.9	137
4/13/2023 8:50	62.8	1.8	6.9	190
4/13/2023 8:55	63	2	8.1	301
4/13/2023 9:00	63.9	2.9	5.8	200
4/13/2023 9:05	63.7	4.3	10.3	237
4/13/2023 9:10	63.9	2.9	9.2	277

Wind Data - Rockwood, MI

4/13/2023 9:15	64.4	0.9	10.3	276
4/13/2023 9:20	64.6	2.2	10.3	262
4/13/2023 9:25	64.8	4	10.3	276
4/13/2023 9:30	65.8	8.1	15.9	280
4/13/2023 9:35	65.5	15	17.2	228
4/13/2023 9:40	65.7	7.6	14.8	299
4/13/2023 9:45	66.2	8.1	10.3	296
4/13/2023 9:50	66	2.9	9.2	275
4/13/2023 9:55	66.4	7.6	11.4	277
4/13/2023 10:00	66.6	11.4	12.5	283
4/13/2023 10:05	68.4	6.5	10.3	276
4/13/2023 10:10	68.5	2.2	8.1	222
4/13/2023 10:15	69.3	2.5	8.1	155
4/13/2023 10:20	69.3	5.4	8.1	303
4/13/2023 10:25	69.1	1.8	9.2	227
4/13/2023 10:30	70	5.8	11.4	274
4/13/2023 10:35	71.6	2.5	5.8	313
4/13/2023 10:40	70.9	4.3	12.5	274
4/13/2023 10:45	70.7	10.3	11.4	283
4/13/2023 10:50	70.7	7.4	11.4	288
4/13/2023 10:55	70.7	6.5	13.7	259
4/13/2023 11:00	71.1	9.8	14.8	280
4/13/2023 11:05	72.1	11.2	12.5	327
4/13/2023 11:10	72.3	3.1	5.8	239
4/13/2023 11:15	73.8	0.5	3.4	207
4/13/2023 11:20	74.8	6.9	10.3	276
4/13/2023 11:25	74.1	4.7	8.1	329
4/13/2023 11:30	73.9	8.1	11.4	272
4/13/2023 11:35	74.1	7.2	8.1	299
4/13/2023 11:40	74.8	7.4	10.3	332
4/13/2023 11:45	75.2	2.2	6.9	176
4/13/2023 11:50	75.4	4.3	8.1	266
4/13/2023 11:55	76.3	2.9	12.5	275
4/13/2023 12:00	75.6	3.4	14.8	239
4/13/2023 12:05	75	7.6	12.5	274
4/13/2023 12:10	75.4	9.2	12.5	184
4/13/2023 12:15	75.4	4.3	8.1	252
4/13/2023 12:20	77	4.3	14.8	271
4/13/2023 12:25	76.8	3.8	11.4	103
4/13/2023 12:30	76.8	7.4	15.9	275
4/13/2023 12:35	76.8	9.2	12.5	313
4/13/2023 12:40	75.9	12.3	19.5	303
4/13/2023 12:46	77	5.4	13.7	286
4/13/2023 12:50	76.5	13.7	19.5	278
4/13/2023 12:55	77.4	4.5	13.7	264
4/13/2023 13:00	76.6	2.9	20.6	129
4/13/2023 13:05	77.4	4	12.5	192

Wind Data - Rockwood, MI

4/13/2023 13:10	77.5	6.9	11.4	252
4/13/2023 13:15	77.5	6.3	15.9	183
4/13/2023 13:20	77.2	6	17.2	319
4/13/2023 13:25	77.9	3.1	5.8	201
4/13/2023 13:30	78.3	4	15.9	346
4/13/2023 13:35	77.7	8.3	13.7	276
4/13/2023 13:40	78.8	5.4	10.3	286
4/13/2023 13:45	78.3	15.7	20.6	317
4/13/2023 13:50	77.9	4.3	13.7	250
4/13/2023 13:55	79.2	2.2	9.2	193
4/13/2023 14:00	78.3	3.4	6.9	268
4/13/2023 14:05	79	4.3	17.2	196
4/13/2023 14:10	79.2	2.5	8.1	353
4/13/2023 14:15	80.1	5.8	12.5	151
4/13/2023 14:20	79.7	11.2	18.3	295
4/13/2023 14:25	78.8	4.5	8.1	244
4/13/2023 14:30	78.1	2.2	15.9	143
4/13/2023 14:35	79	1.8	9.2	292
4/13/2023 14:40	79.9	10.5	17.2	281
4/13/2023 14:45	79.7	9.2	14.8	304
4/13/2023 14:50	79.5	3.4	11.4	237
4/13/2023 14:55	80.4	3.6	8.1	224
4/13/2023 15:00	79.2	2.5	20.6	168
4/13/2023 15:05	79.5	5.8	17.2	228
4/13/2023 15:10	80.2	4.5	13.7	187
4/13/2023 15:15	80.6	13.7	17.2	264
4/13/2023 15:20	79.5	2.9	14.8	357
4/13/2023 15:25	81.1	5.4	13.7	209
4/13/2023 15:30	80.8	1.3	4.5	222
4/13/2023 15:35	81	9.6	17.2	305
4/13/2023 15:40	79.9	2.7	13.7	144
4/13/2023 15:45	80.8	2.5	11.4	33
4/13/2023 15:50	81.3	6	13.7	265
4/13/2023 15:55	81.3	4.3	6.9	262
4/13/2023 16:00	81.1	6.9	13.7	275
4/13/2023 16:05	81.3	2.2	8.1	216
4/13/2023 16:10	81.9	2	10.3	116
4/13/2023 16:15	80.6	7.8	12.5	268
4/13/2023 16:20	80.8	2.2	10.3	230
4/13/2023 16:25	82	7.8	12.5	302
4/13/2023 16:30	80.4	4.5	8.1	259
4/13/2023 16:35	81.3	6	12.5	150
4/13/2023 16:40	81.5	5.1	9.2	309
4/13/2023 16:45	81.5	4.5	6.9	308
4/13/2023 16:50	81.7	4.3	8.1	270
4/13/2023 16:55	82	3.8	9.2	90
4/13/2023 17:00	81.5	0.9	9.2	4

Wind Data - Rockwood, MI

4/13/2023 17:05	81.1	7.6	10.3	317
4/13/2023 17:10	81.5	2.2	8.1	152
4/13/2023 17:15	82	2.7	9.2	193
4/13/2023 17:20	81.9	2.2	8.1	209
4/13/2023 17:25	82	2.7	6.9	25
4/13/2023 17:30	82.2	4	5.8	204
4/13/2023 17:35	81.7	4.9	11.4	314
4/13/2023 17:40	82	1.6	8.1	186
4/13/2023 17:45	82.4	2.9	6.9	284
4/13/2023 17:51	82	4	8.1	203
4/13/2023 17:55	82	2.5	4.5	210
4/13/2023 18:00	82.6	2.9	4.5	194
4/13/2023 18:05	81.7	3.8	6.9	217
4/13/2023 18:10	81.3	4.5	9.2	227
4/13/2023 18:15	81	3.4	8.1	204
4/13/2023 18:20	80.8	2.9	5.8	198
4/13/2023 18:25	80.2	4	8.1	202
4/13/2023 18:30	80.8	2.5	4.5	202
4/13/2023 18:35	80.2	6.5	9.2	202
4/13/2023 18:40	79.9	3.4	4.5	216
4/13/2023 18:45	79.9	5.8	6.9	212
4/13/2023 18:50	80.1	1.6	4.5	220
4/13/2023 18:55	80.1	1.1	4.5	293
4/13/2023 19:00	79.9	1.8	6.9	211
4/13/2023 19:05	79.7	2.2	4.5	225
4/13/2023 19:10	79.9	2	2.2	244
4/13/2023 19:15	79.9	1.8	3.4	218
4/13/2023 19:20	79.5	2.9	4.5	294
4/13/2023 19:25	79.3	3.4	4.5	203
4/13/2023 19:30	79	2.2	3.4	204
4/13/2023 19:35	78.4	2.5	5.8	289
4/13/2023 19:40	78.6	1.1	5.8	203
4/13/2023 19:45	78.3	0.9	2.2	192
4/13/2023 19:50	77.9	1.6	3.4	188
4/13/2023 19:55	77.4	2.9	3.4	199
4/13/2023 20:00	76.8	1.3	3.4	212
4/13/2023 20:05	76.3	2.2	3.4	203
4/13/2023 20:10	75.6	1.1	3.4	205
4/13/2023 20:15	75.2	1.8	3.4	190
4/13/2023 20:20	74.7	1.1	3.4	199
4/13/2023 20:25	74.3	1.8	3.4	201
4/13/2023 20:30	74.1	2	3.4	202
4/13/2023 20:35	74.1	2.2	4.5	192
4/13/2023 20:40	73.8	0.9	4.5	187
4/13/2023 20:45	73.4	2.9	3.4	210
4/13/2023 20:50	73	0.9	2.2	209
4/13/2023 20:55	72.9	1.1	2.2	198

Wind Data - Rockwood, MI

4/13/2023 21:00	72.9	0.9	3.4	195
4/13/2023 21:05	72.3	2.2	4.5	213
4/13/2023 21:10	72	1.3	4.5	188
4/13/2023 21:15	72	1.8	4.5	203
4/13/2023 21:20	72	0.5	4.5	194
4/13/2023 21:25	72.1	1.6	3.4	200
4/13/2023 21:30	72.1	2	4.5	239
4/13/2023 21:35	72	1.1	4.5	185
4/13/2023 21:40	72	0.7	3.4	211
4/13/2023 21:45	71.8	0.5	2.2	205
4/13/2023 21:50	71.8	0.7	2.2	203
4/13/2023 21:55	71.6	2	3.4	202
4/13/2023 22:00	71.8	0	4.5	185
4/13/2023 22:05	71.6	0	3.4	217
4/13/2023 22:10	71.4	0.9	3.4	212
4/13/2023 22:15	71.4	1.1	3.4	199
4/13/2023 22:20	71.2	0.2	3.4	205
4/13/2023 22:25	70.9	0.5	1.1	215
4/13/2023 22:30	70.7	0	1.1	190
4/13/2023 22:35	70.3	0.9	2.2	199
4/13/2023 22:40	70	2.2	3.4	202
4/13/2023 22:45	69.6	0.9	2.2	194
4/13/2023 22:50	69.1	0.9	2.2	209
4/13/2023 22:55	68.9	0.5	2.2	195
4/13/2023 23:00	68.7	0.9	2.2	203
4/13/2023 23:05	69.1	0.9	3.4	216
4/13/2023 23:10	68.9	1.8	3.4	201
4/13/2023 23:15	68.5	2.2	3.4	198
4/13/2023 23:20	68.2	1.6	4.5	203
4/13/2023 23:25	68.2	1.8	4.5	222
4/13/2023 23:30	68.2	1.3	3.4	189
4/13/2023 23:35	68.2	1.6	3.4	193
4/13/2023 23:40	67.8	1.1	3.4	201
4/13/2023 23:45	67.6	0.9	3.4	197
4/13/2023 23:50	67.5	2.2	3.4	196
4/13/2023 23:56	67.3	1.3	2.2	198
4/14/2023 0:00	66.7	1.8	2.2	199
4/14/2023 0:05	66.4	0.7	1.1	197
4/14/2023 0:10	66.2	0	2.2	199
4/14/2023 0:15	65.7	0	1.1	188
4/14/2023 0:20	65.5	0	1.1	188
4/14/2023 0:25	65.8	0.7	1.1	182
4/14/2023 0:30	65.8	0.5	2.2	183
4/14/2023 0:35	65.8	0.7	3.4	191
4/14/2023 0:40	66	1.6	2.2	191
4/14/2023 0:45	66	0.5	1.1	183
4/14/2023 0:50	65.5	1.6	2.2	188

Wind Data - Rockwood, MI

4/14/2023 0:55	65.3	0.7	1.1	191
4/14/2023 1:00	65.3	0.9	2.2	194
4/14/2023 1:05	65.8	2.5	4.5	188
4/14/2023 1:10	66	2.9	3.4	199
4/14/2023 1:15	65.7	1.3	2.2	195
4/14/2023 1:20	65.8	1.8	2.2	190
4/14/2023 1:25	66	2.5	3.4	202
4/14/2023 1:30	65.8	0.2	2.2	197
4/14/2023 1:35	65.1	2.2	3.4	203
4/14/2023 1:40	64.8	0.9	2.2	199
4/14/2023 1:45	64.4	1.3	2.2	189
4/14/2023 1:50	64	1.3	2.2	213
4/14/2023 1:55	63.9	1.8	2.2	197
4/14/2023 2:00	63.9	1.3	2.2	196
4/14/2023 2:05	63.7	1.8	2.2	195
4/14/2023 2:10	63.7	0.7	2.2	197
4/14/2023 2:15	63.3	0.2	1.1	182
4/14/2023 2:20	63.5	1.1	3.4	206
4/14/2023 2:25	63.1	0.2	1.1	188
4/14/2023 2:30	62.8	0	1.1	189
4/14/2023 2:35	62.1	0	0	180
4/14/2023 2:40	61.9	0	1.1	187
4/14/2023 2:45	61.5	0	0	180
4/14/2023 2:50	61.5	0	0	176
4/14/2023 2:55	61.3	0	0	173
4/14/2023 3:00	61.3	0	0	173
4/14/2023 3:05	61.2	0.2	1.1	183
4/14/2023 3:10	61.2	0	0	176
4/14/2023 3:15	60.8	0	0	176
4/14/2023 3:20	61.2	1.3	2.2	239
4/14/2023 3:25	61	1.1	1.1	247
4/14/2023 3:30	60.8	1.1	2.2	261
4/14/2023 3:35	61	1.3	2.2	264
4/14/2023 3:40	61.7	0	2.2	244
4/14/2023 3:45	62.1	0.7	2.2	263
4/14/2023 3:50	62.8	2	2.2	265
4/14/2023 3:55	63	1.1	1.1	250
4/14/2023 4:00	62.8	1.1	1.1	251
4/14/2023 4:05	62.4	0	1.1	246
4/14/2023 4:10	61.9	0	0	187
4/14/2023 4:15	60.8	0	0	178
4/14/2023 4:20	59.5	0	0	173
4/14/2023 4:25	59.2	0.7	1.1	168
4/14/2023 4:30	58.6	0.9	1.1	138
4/14/2023 4:35	58.6	0	0	164
4/14/2023 4:40	59.5	0	1.1	192
4/14/2023 4:45	60.3	0	0	192

Wind Data - Rockwood, MI

4/14/2023 4:50	59.5	0	0	177
4/14/2023 4:55	58.5	0	0	175
4/14/2023 5:01	59	0	0	177
4/14/2023 5:05	57.9	0	0	173
4/14/2023 5:10	57	0	0	181
4/14/2023 5:15	56.7	0	0	167
4/14/2023 5:20	56.8	0	1.1	164
4/14/2023 5:25	57	0	1.1	168
4/14/2023 5:30	56.3	1.1	1.1	164
4/14/2023 5:35	56.7	1.1	1.1	160
4/14/2023 5:40	56.7	1.1	2.2	159
4/14/2023 5:45	56.8	1.1	1.1	139
4/14/2023 5:50	57	0.9	1.1	157
4/14/2023 5:55	57.2	0.9	2.2	156
4/14/2023 6:00	56.7	0.2	1.1	143
4/14/2023 6:05	57	0.7	1.1	194
4/14/2023 6:10	56.1	1.1	2.2	164
4/14/2023 6:15	56.1	1.1	2.2	165
4/14/2023 6:20	57	0	0	173
4/14/2023 6:25	55.8	0	0	169
4/14/2023 6:30	55.9	0	0	166
4/14/2023 6:35	55.6	0.9	1.1	177
4/14/2023 6:40	55	0	1.1	167
4/14/2023 6:45	54	0	0	170
4/14/2023 6:50	53.4	0.2	1.1	178
4/14/2023 6:55	52.9	0	0	166
4/14/2023 7:00	53.2	0	0	172
4/14/2023 7:05	53.6	0	0	181
4/14/2023 7:10	54.7	0	0	173
4/14/2023 7:15	54.9	0	0	172
4/14/2023 7:20	54.7	0	1.1	171
4/14/2023 7:25	55.4	0	0	171
4/14/2023 7:30	55.8	0	0	165
4/14/2023 7:35	57	0	0	165
4/14/2023 7:40	58.3	0	0	165
4/14/2023 7:45	58.8	0	0	164
4/14/2023 7:50	59.7	0	0	163
4/14/2023 7:55	60.1	0	0	166
4/14/2023 8:00	61	0.2	1.1	166
4/14/2023 8:05	60.4	0.2	1.1	158
4/14/2023 8:10	60.6	0	0	158
4/14/2023 8:15	60.3	1.3	2.2	156
4/14/2023 8:20	58.6	2.2	2.2	160
4/14/2023 8:25	57.4	0	1.1	170
4/14/2023 8:30	59.5	0	1.1	170
4/14/2023 8:35	61	0	1.1	177
4/14/2023 8:40	62.1	0	1.1	184

Wind Data - Rockwood, MI

4/14/2023 8:45	62.1	0.2	1.1	167
4/14/2023 8:50	63.7	0	0	164
4/14/2023 8:55	63.5	0	1.1	162
4/14/2023 9:00	65.1	0	0	156
4/14/2023 9:06	63.5	0	0	168
4/14/2023 9:10	65.3	0.7	1.1	153
4/14/2023 9:15	66.7	2.2	3.4	156
4/14/2023 9:20	66.6	0.2	1.1	156
4/14/2023 9:25	66.2	1.3	2.2	221
4/14/2023 9:30	67.8	0.9	1.1	177
4/14/2023 9:35	66.2	1.3	2.2	225
4/14/2023 9:40	65.8	1.3	2.2	230
4/14/2023 9:45	66	0.2	1.1	228
4/14/2023 9:50	67.5	0.9	1.1	210
4/14/2023 9:55	69.6	0	1.1	196
4/14/2023 10:00	70.9	0	1.1	192
4/14/2023 10:05	71.2	0	0	184
4/14/2023 10:10	70.7	0.9	1.1	195
4/14/2023 10:15	69.6	0	1.1	196
4/14/2023 10:20	72.3	0	1.1	189
4/14/2023 10:25	73.2	0	0	168
4/14/2023 10:30	73.9	0	2.2	137
4/14/2023 10:35	74.7	0.9	1.1	177
4/14/2023 10:40	75.9	1.1	1.1	176
4/14/2023 10:45	73.9	3.1	3.4	160
4/14/2023 10:50	74.5	3.4	3.4	156
4/14/2023 10:55	74.5	0	2.2	153
4/14/2023 11:00	73.6	2.5	3.4	169
4/14/2023 11:05	73.8	1.6	4.5	168
4/14/2023 11:10	73.2	3.4	4.5	153
4/14/2023 11:15	72.9	5.4	6.9	154
4/14/2023 11:20	73.8	0.9	4.5	162
4/14/2023 11:25	74.8	3.8	4.5	160
4/14/2023 11:30	72.7	2.2	5.8	155
4/14/2023 11:35	73.6	2.5	4.5	166
4/14/2023 11:40	73.8	3.8	4.5	155
4/14/2023 11:45	73.9	3.4	4.5	166
4/14/2023 11:50	74.7	1.1	4.5	168
4/14/2023 11:55	75.6	0.7	4.5	169
4/14/2023 12:00	74.3	3.4	5.8	160
4/14/2023 12:05	74.5	0.7	4.5	168
4/14/2023 12:10	74.3	4.9	5.8	156
4/14/2023 12:15	76.1	1.3	4.5	140
4/14/2023 12:20	75	2.7	5.8	180
4/14/2023 12:25	76.6	1.1	5.8	164
4/14/2023 12:30	77	1.6	3.4	162
4/14/2023 12:35	76.1	1.8	4.5	196

Wind Data - Rockwood, MI

4/14/2023 12:40	74.7	5.4	8.1	226
4/14/2023 12:45	73.9	4	8.1	180
4/14/2023 12:50	74.3	3.8	6.9	173
4/14/2023 12:55	73.8	4.7	6.9	172
4/14/2023 13:00	74.5	3.4	8.1	157
4/14/2023 13:05	74.8	4.9	8.1	160
4/14/2023 13:10	75.2	0	2.2	219
4/14/2023 13:15	76.1	5.4	6.9	152
4/14/2023 13:20	77.7	2	3.4	170
4/14/2023 13:25	76.8	2.9	5.8	146
4/14/2023 13:30	77.5	2.2	4.5	154
4/14/2023 13:35	75	5.4	6.9	167
4/14/2023 13:40	74.3	7.2	9.2	182
4/14/2023 13:45	76.1	2.9	5.8	166
4/14/2023 13:50	76.3	2.7	6.9	190
4/14/2023 13:55	76.8	3.1	8.1	163
4/14/2023 14:00	77.5	1.3	2.2	169
4/14/2023 14:05	78.1	2.5	5.8	170
4/14/2023 14:11	75.2	4.9	8.1	165
4/14/2023 14:15	75	4	8.1	157
4/14/2023 14:20	75.7	2.2	8.1	177
4/14/2023 14:25	76.8	2.9	5.8	173
4/14/2023 14:30	77.2	4	5.8	151
4/14/2023 14:35	79.2	1.6	2.2	194
4/14/2023 14:40	80.4	1.8	5.8	185
4/14/2023 14:45	80.2	1.8	4.5	187
4/14/2023 14:50	77.7	0.5	5.8	185
4/14/2023 14:55	76.5	6.5	9.2	165
4/14/2023 15:00	75.7	5.8	8.1	158
4/14/2023 15:05	75.4	9.2	10.3	185
4/14/2023 15:10	75.6	3.1	6.9	179
4/14/2023 15:15	75.4	4	9.2	205
4/14/2023 15:20	75.4	4	6.9	176
4/14/2023 15:25	75.7	7.6	9.2	162
4/14/2023 15:30	74.8	3.6	9.2	172
4/14/2023 15:35	74.7	5.8	6.9	151
4/14/2023 15:40	75	4.9	8.1	189
4/14/2023 15:45	75.2	3.8	6.9	193
4/14/2023 15:50	75.6	2.5	6.9	178
4/14/2023 15:55	75.6	6	8.1	179
4/14/2023 16:00	75.2	5.4	9.2	186
4/14/2023 16:05	75	2.5	10.3	156
4/14/2023 16:10	75	1.3	5.8	167
4/14/2023 16:15	75.6	1.3	3.4	157
4/14/2023 16:20	76.1	2.5	8.1	197
4/14/2023 16:25	75.7	0.7	4.5	183
4/14/2023 16:30	76.6	1.3	6.9	189

Wind Data - Rockwood, MI

4/14/2023 16:35	75.6	4	6.9	212
4/14/2023 16:40	76.3	2.9	8.1	175
4/14/2023 16:45	76.5	2.5	6.9	165
4/14/2023 16:50	77.7	1.1	6.9	221
4/14/2023 16:55	77.5	4	6.9	165
4/14/2023 17:00	76.8	1.8	8.1	194
4/14/2023 17:05	78.8	1.3	5.8	221
4/14/2023 17:10	79.2	2.2	4.5	173
4/14/2023 17:15	78.4	3.4	5.8	217
4/14/2023 17:20	77.7	2.9	3.4	178
4/14/2023 17:25	76.8	5.4	5.8	106
4/14/2023 17:30	75.9	0.5	4.5	196
4/14/2023 17:35	76.1	1.6	4.5	171
4/14/2023 17:40	75.6	3.6	4.5	156
4/14/2023 17:45	76.1	2.7	3.4	166
4/14/2023 17:50	76.6	2.9	4.5	182
4/14/2023 17:55	75	1.8	4.5	165
4/14/2023 18:00	74.8	2.2	4.5	174
4/14/2023 18:05	74.8	0.9	2.2	170
4/14/2023 18:10	74.7	2.5	3.4	168
4/14/2023 18:15	74.7	1.3	3.4	170
4/14/2023 18:20	74.5	1.6	3.4	170
4/14/2023 18:25	73.9	2.2	4.5	174
4/14/2023 18:30	73.6	1.6	3.4	169
4/14/2023 18:35	73	4.5	4.5	157
4/14/2023 18:40	72.1	3.6	4.5	142
4/14/2023 18:45	72	2.2	3.4	174
4/14/2023 18:50	72.3	1.3	2.2	171
4/14/2023 18:55	72.1	0.9	1.1	166
4/14/2023 19:00	72.1	1.1	1.1	158
4/14/2023 19:05	72	1.1	1.1	150
4/14/2023 19:10	72.1	0.9	1.1	119
4/14/2023 19:16	72.3	0	1.1	118
4/14/2023 19:20	72.3	0.2	1.1	118
4/14/2023 19:25	72.3	0	1.1	117
4/14/2023 19:30	72.3	0.2	1.1	116
4/14/2023 19:35	72.1	0	0	131
4/14/2023 19:40	72	0	0	141
4/14/2023 19:45	71.8	0	1.1	148
4/14/2023 19:50	71.8	0.9	1.1	148
4/14/2023 19:55	71.4	1.1	1.1	137
4/14/2023 20:00	71.4	1.3	2.2	132
4/14/2023 20:05	71.4	1.3	2.2	143
4/14/2023 20:10	70.9	1.1	1.1	152
4/14/2023 20:16	70.2	1.8	2.2	153
4/14/2023 20:20	70	1.8	2.2	162
4/14/2023 20:25	69.4	0	1.1	166

Wind Data - Rockwood, MI

4/14/2023 20:30	68.9	0.9	1.1	168
4/14/2023 20:35	68	1.8	3.4	157
4/14/2023 20:40	67.3	0	0	179
4/14/2023 20:45	66.7	6.3	6.9	148
4/14/2023 20:50	65.1	5.8	10.3	162
4/14/2023 20:55	63.5	1.3	6.9	212
4/14/2023 21:00	62.6	1.8	2.2	220
4/14/2023 21:05	62.1	0.9	3.4	167
4/14/2023 21:10	61.3	3.8	5.8	166
4/14/2023 21:15	61	6	9.2	173
4/14/2023 21:20	60.8	1.6	8.1	190
4/14/2023 21:25	60.8	3.4	4.5	172
4/14/2023 21:30	60.6	0.7	4.5	170
4/14/2023 21:35	60.8	0.5	2.2	200
4/14/2023 21:40	61	0.7	3.4	219
4/14/2023 21:45	60.8	2.2	3.4	208
4/14/2023 21:50	60.8	0.9	3.4	205
4/14/2023 21:55	60.8	0	1.1	176
4/14/2023 22:00	60.4	2.7	4.5	157
4/14/2023 22:05	60.4	0	1.1	164
4/14/2023 22:10	60.3	1.6	2.2	160
4/14/2023 22:15	60.3	2.2	3.4	155
4/14/2023 22:20	60.3	0.5	1.1	166
4/14/2023 22:25	60.4	4	5.8	153
4/14/2023 22:30	60.4	3.4	4.5	166
4/14/2023 22:35	60.4	0.7	4.5	165
4/14/2023 22:40	60.4	0.7	2.2	172
4/14/2023 22:45	60.3	4.5	4.5	156
4/14/2023 22:50	59.9	0.2	3.4	162
4/14/2023 22:55	59.5	1.1	2.2	167
4/14/2023 23:00	59.5	0	0	175
4/14/2023 23:05	59.4	0	0	175
4/14/2023 23:10	59.4	0.9	2.2	194
4/14/2023 23:15	59.9	0.2	1.1	196
4/14/2023 23:20	60.1	1.1	3.4	211
4/14/2023 23:25	60.4	0	2.2	206
4/14/2023 23:30	59.7	0	1.1	216
4/14/2023 23:35	59.4	0	1.1	214
4/14/2023 23:40	59.2	1.8	2.2	209
4/14/2023 23:45	60.4	2.2	3.4	210
4/14/2023 23:50	60.4	1.8	2.2	204
4/14/2023 23:55	60.4	2.5	3.4	201