

Attachment 5

March 9, 2022

Mr. Chase T. Brockstedt
Baird Mandalas Brockstedt LLC
1413 Savannah Rd.
Lewes, DE 19958

Dear Mr. Brockstedt:

Thank you for your attention to the difficult situation at the New Indy Container plant located in Catawba, South Carolina.

My wife Susan and I recently moved to Lancaster County, South Carolina into the Tree Tops Community. Having recently retired after a 40+ year career with a large national bank, we moved to the area to be closer to our family including our young granddaughter. Being avid outdoors people, we enjoy walking, swimming, hiking and being outside as much as possible. We also enjoy the company of our Havanese pup named Bailey which necessitates frequent trips outside for her business and to take walks.

With our move to Tree Tops and our outdoor activities, it quickly became apparent that something was in the air. After chatting with neighbors and checking social media we learned about New Indy and their retrofitting to manufacture cardboard. With the uncertainty around the air quality, I decided to start tracking the smell to verify the source and provide quantitative data on the impact in our community. As such, I am writing to report my observations.

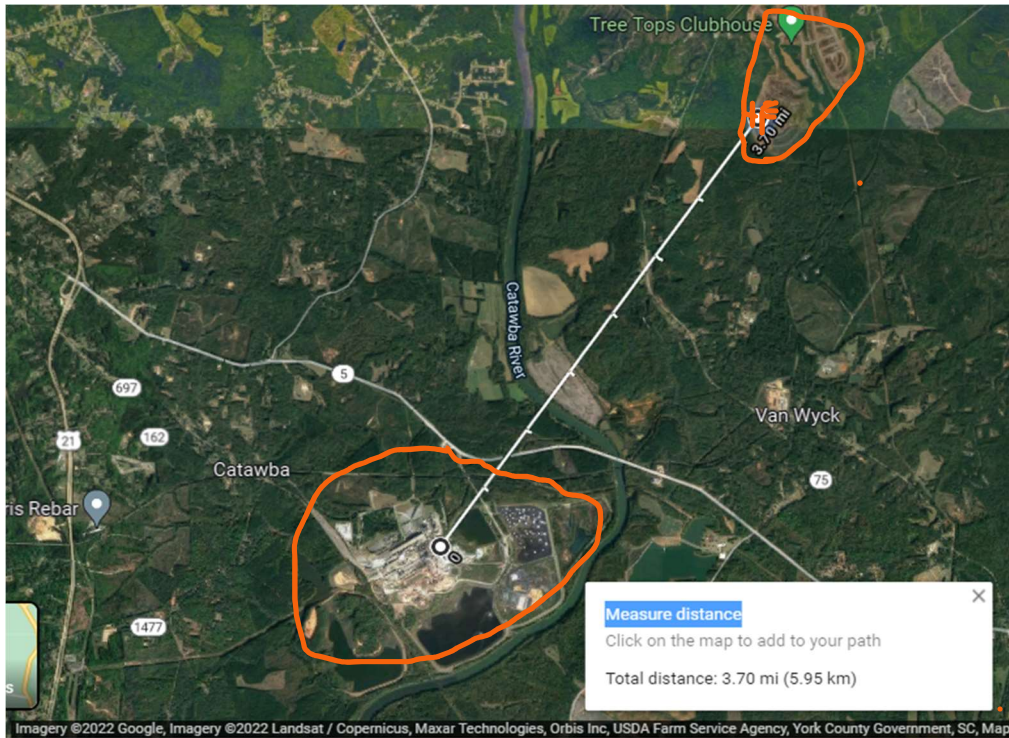
New Indy Location from Tree Tops

The center of the New Indy mill is located 3.5 to 4.5 miles to the southwest from the Tree Tops community. New Indy is located just south of South Carolina Route 5 on the west side of the Catawba River and is just across the river from the Catawba River Water Plant which supplies water for the surrounding community.

Tree Tops is just south of Indian Land, South Carolina on Van Wyke Road. You can reach Tree Tops by driving south on South Carolina Route 521 and turning right onto Van Wyke Road. The Tree Tops Community is about three miles from that intersection on the left side of Van Wyke Road. Tree Tops sits about two miles north of Van Wyke, South Carolina.

Our home is located at 1809 Tranquility Blvd., Lancaster, SC 29720 – about 3.7 miles from New Indy and is the primary reporting location for most of the hourly reports on the spreadsheet.

The map below provides a visual on the locations with New Indy and the Tree Tops Community **circled** and our home highlighted at the **asterisk** within the community.



Verifying Source of Sweet Chemical Smell

My initial goal was to ensure that New Indy was the source of the smell. Shortly after we moved into our new home, we were out shopping near Rock Hill and were returning home, driving east from Rock Hill along Route 5 (which runs just north of the plant). As we passed the plant and were on the bridge crossing the Catawba River, we noticed a very strong, sweet sickening chemical smell. After a short distance, the smell diminished and we turned to the north towards Van Wyke Road. Shortly before we turned from Van Wyke Road into Tree Tops, we again began to smell the stench. Upon arriving at our Tree Tops home, we were into the thickest part of the smell – “home sweet home I guess” is what my wife said at the time. Sadly, it wasn’t funny.

On two other occasions we first identified the sweet chemical smell at our home and drove past New Indy to confirm the source of the smell. On returning from another shopping trip to Rock Hill, we drove south and west of the plant down South Carolina Route 21. We identified the smell and confirmed the wind direction to the west as we drove through Catawba, South Carolina. I am confident that the sweet chemical smell is emanating from New Indy.

Data Gathering on Sweet Chemical Smell

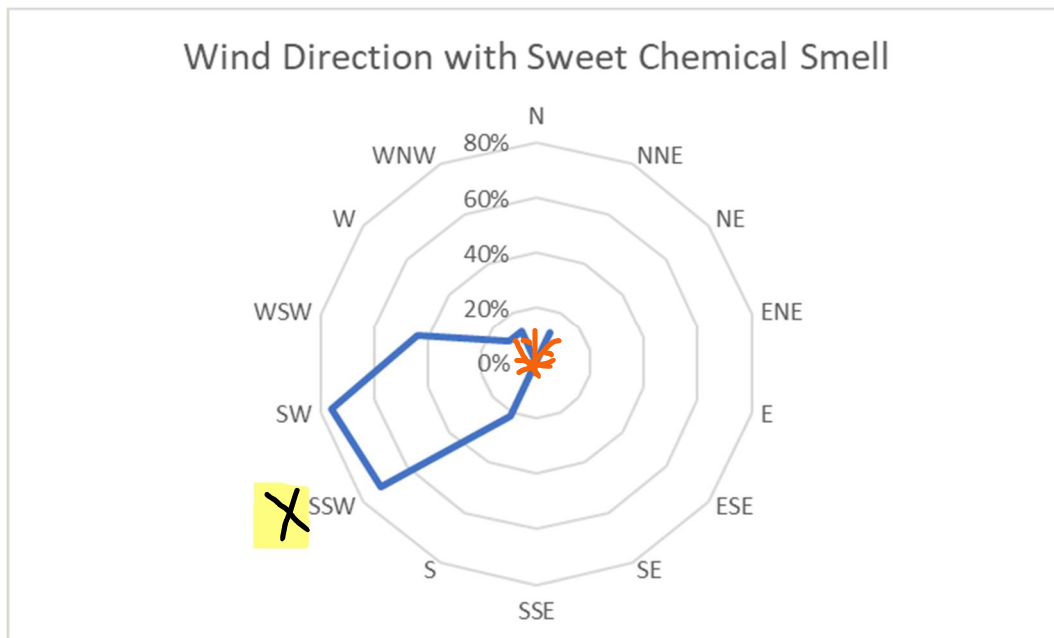
Beginning in mid-January and then continuing through much of February and early March, I began tracking by day and hour (8 AM to Midnight) whether I could detect the now familiar sweet sickening chemical smell outside my home. I also tracked the intensity of the smell (Low, Medium, High), the “from” wind direction and speed from Willyweather.com (Catawba Wind Forecast – Zip Code 29704), as well as the “to” wind direction and speed from the Weather.com application on my iPhone. As noted on the spreadsheet, the smell was consistently a sweet sickening chemical odor.

I maintained this information in an Excel spreadsheet. Attachment 1 to this letter includes the detailed daily/hourly observations as described above. The headings from the worksheet and a few hours of sample data from January 13 are pasted below for informational purposes.

Wind & Smell Data Worksheet -- Tree Tops Community							
Majority of data points were taken at 1809 Tranquility Blvd. in Tree Tops							
Key for Spreadsheet Headings:		1. Smell Intensity: Low -- can detect odor Medium - consistent & pervasive smell High -- pervasive intensive overpowering smell					
Catawba Wind Forecast -- ZIP 29704		2. Wind "From" Direction & Wind Speed Collected from willyweather.com					
Graphs (willyweather.com)		3. Smell Type - Sweet Chemical, Rotten Egg, Other					
		4. Wind Direction "To" In TT Community from The Weather Channel on iPhone					
Date	Time	Smell Detected	1. Smell Intensity (L, M, H)	2. Wind "From" Direction	2. Wind Speed	3. Smell Type	4. Wind Direction "To" In Tree Tops Community
Weather:		Mostly sunny and moderate temperatures					
13-Jan	900	Y	L/M	NNE	3.4	S	Wind 2 mph to NNE in TT
13-Jan	1000	Y	M	SW	2.2	S	Wind 1 mph to NNE in TT
13-Jan	1100	Y	M	SW	3.4	S	Wind 1 mph to NNE in TT
13-Jan	1200	Y	M/H	SW	3.4	S	Wind 2 mph to NNE in TT

Wind Direction with Sweet Chemical Smell Observations

Please see the chart below for a visual display of the wind direction when the sweet chemical smell was experienced. The solid blue line shows the percentage of positive smell readings by wind direction. The preponderance of the data shows the source of the smell aligned towards New Indy which is shown at the X on the chart. Our home is indicated by the **asterisk** in the center.



(Please note that the chart above does NOT align to standard north/south axis but is skewed based upon the weight of data results.)

Other Observations

In addition to the findings above, I have a few other thoughts and observations. The weather has a significant impact on the intensity of the smell. For example, if the humidity is high, it is cloudy or rain is expected, the smell intensity tends to be much greater. The smell tends to be much more intense in the summer months when the air is warmer and/or more humid. Wind speeds of less than three (3) miles per hour or more than twelve (12) miles per hour tend to result in lower smell intensity – either not moving the air far enough to reach our community or moving the air so fast that it tends to dilute the air from the plant. A cloud cover tends to hold the air closer to the surface which can produce an intense smell despite heavy winds.

Final Thoughts

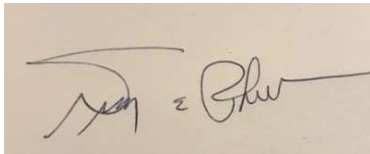
Putting aside the analytical reporting and analysis, the human toll from New Indy is significant for my family. About two days a week (three in the summer) it is difficult to go outside – the smell smacks you in the face as soon as you step out the door. For me, the smell is a strong sweet sickening chemical smell and when at moderate or at high levels, I get a scratchy throat and congestion – not unlike when my allergies might flair up. The impact for me is immediate when I step outside.

Our daughter-in-law Leslie has reported a series of health issues which she began to experience around the beginning of 2021 including breathing issues, cold-like symptoms including a runny nose/congestion and throat/eye irritation. Their home is about 7.5 miles to the northeast of New Indy. In the summer of 2021, they considered moving but instead opted to have a home filtration system added to their HVAC system to scrub the air coming into their home. After installation and some minor tweaks, she has had significant improvement at the cost of about \$1,000. However, if she steps outside on the wrong day, those symptoms return. And when the smell is bad, they will not let our granddaughter go outside – they are in essence trapped in their home.

To close, at the EPA open house in January, they explained that there is no health risk to the air we are breathing from New Indy. In my rebuttal comments to the EPA, I disputed that with good rationale which I will not detail in this letter. Regardless, I cannot see how anyone would want their children and their family to have to endure this putrid air and the odor. Regardless of the physical health impacts, the emotional toll is just as dangerous. I never thought I would find myself planning my workouts and social calendar around the wind direction. Some days you just can't go outside. And on many nice warm sunny days, you can't open your windows to let in the fresh air because, well, there is NO fresh air.

Mr. Brockstedt, thank you once again for helping us address this important and pressing issue for our family and the Tree Tops community.

Best regards,

A handwritten signature in black ink on a light-colored background. The signature is stylized and appears to read "Tim Phillips".

Tim Phillips
1809 Tranquility Blvd.
Lancaster, SC 29720

E-Mail: timphillips2017@gmail.com
Mobile: 941-799-1407/

Wind & Smell Data Worksheet -- Tree Tops Community

Readings taken January 13 to 31, 2022

Majority of data points were taken at 1809 Tranquility Blvd. in Tree Tops

Key for Spreadsheet Headings:

1. Smell Intensity:
<u>L</u> ow -- can detect odor
<u>M</u> edium - consistent & pervasive smell
<u>H</u> igh -- pervasive intensive overpowering smell

Catawba Wind Forecast -- ZIP 29704

[Graphs \(willyweather.com\)](http://willyweather.com)

2. Wind "From" Direction & Wind Speed Collected from willyweather.com

3. Smell Type - Sweet Chemical, Rotten Egg, Other

4. Wind Direction "To" in TT Community from The Weather Channel on iPhone

Date	Time	Smell Detected	1. Smell Intensity (L, M, H)	2. Wind "From" Direction	2. Wind Speed	3. Smell Type	4. Wind Direction "To" In Tree Tops Community
Weather: Mostly sunny and moderate temperatures							
13-Jan	900	Y	L/M	NNE	3.4	S	Wind 2 mph to NNE in TT
13-Jan	1000	Y	M	SW	2.2	S	Wind 1 mph to NNE in TT
13-Jan	1100	Y	M	SW	3.4	S	Wind 1 mph to NNE in TT
13-Jan	1200	Y	M/H	SW	3.4	S	Wind 2 mph to NNE in TT
13-Jan	1300	Y	M/H	SW	3.4	S	Wind 2 mph to NNE in TT
13-Jan	1400	Y	M	SW	4.7	S	Wind 6 mph to NNE in TT
13-Jan	1500	Y	M	SSW	4.7	S	Wind 7 mph to NNE in TT
13-Jan	1600	Y	L/M	SW	5.8	S	Wind 5 mph to E in TT
13-Jan	1700	N		WSW	4.7		Wind 1 mph to SE in TT
13-Jan	1800	N		W	3.4		Wind 1 mph to SSE in TT
13-Jan	1900	N		W	3		Wind 2 mph to SSE in TT
13-Jan	2000	N		W	3.4		Wind 2 mph to SSE in TT
13-Jan	2100	N		WNW	3.4		Wind 2 mph to SE in TT
13-Jan	2200	N		NW	3.4		Wind 2 mph to SSE in TT
13-Jan	2300	N		NW	4.7		Wind 2 mph to SE in TT
13-Jan	2400						
Weather: Mostly sunny and seasonable temperatures							
14-Jan	800	N		NNW	4.7		Wind 2 mph to E in TT
14-Jan	900	N		NNW	5.8		Wind 3 mph to SE in TT
14-Jan	1000	N		N	8.1		Wind 4 mph to SE in TT
14-Jan	1100	N		N	9.2		Wind 7 mph to S in TT
14-Jan	1200	N		N	9.2		Wind 7 mph to S in TT
14-Jan	1300	N		NNW	10.3		Wind 9 mph to S in TT
14-Jan	1400	N		NNW	10.3		Wind 9 mph to S in TT
14-Jan	1500	N		NNW	10.3		Wind 8 mph to S in TT
14-Jan	1600	N		NNW	6.9		Wind 8 mph to S in TT
14-Jan	1700	N		NNW	5.8		Wind 6 mph to S in TT
14-Jan	1800	N		N	4.7		Wind 4 mph to S in TT
14-Jan	1900	N		N	4.7		Wind 2 mph to S in TT
14-Jan	2000	N		N	3.4		Wind 2 mph to S in TT
14-Jan	2100	N		N	3.4		Wind 1 mph to S in TT
14-Jan	2200	N		NNE	4.7		Wind 1 mph to S in TT
14-Jan	2300	N		NNE	4.7		
14-Jan	2400	N					
Weather: Mostly cloudy and colder							
15-Jan	800	N		NE	4.7		Wind 3 mph to SW in TT
15-Jan	900	N		ENE	4.7		Wind 3 mph to SW in TT
15-Jan	1000	N		E	6.9		Wind 5 mph to WSW in TT
15-Jan	1100	N		ENE	5.8		Wind 7 mph to WSW in TT
15-Jan	1200	N		ENE	5.8		Wind 7 mph to WSW in TT
15-Jan	1300	N		ENE	5.8		Wind 6 mph to SW in TT
15-Jan	1400	N		NE	5.8		Wind 6 mph to SW in TT
15-Jan	1500	N		NE	5.8		Wind 7 mph to SW in TT
15-Jan	1600	N		E	6.9		Wind 7 mph to WSW in TT
15-Jan	1700	N		E	6.9		Wind 8 mph to WSW in TT
15-Jan	1800	N		ENE	6.9		Wind 7 mph to W in TT
15-Jan	1900	N		ENE	8.1		Wind 7 mph to W in TT
15-Jan	2000	N		ENE	6.9		Wind 7 mph to W in TT
15-Jan	2100	N		ENE	8.1		Wind 7 mph to W in TT
15-Jan	2200	N		ENE	8.1		Wind 7 mph to WSW in TT
15-Jan	2300	N		ENE	9.2		Wind 8 mph to WSW in TT
15-Jan	2400						
Weather: Snow, Sleet & Ice Storm most of the day							
16-Jan	800	N		ENE	16.1		Wind 10 mph to SW in TT

16-Jan	900	N		NE	17.2		Wind 11 mph to SW in TT
16-Jan	1000	N		NE	18.3		Wind 10 mph to SW in TT
16-Jan	1100	N		ENE	19.5		Lost Power in Home
16-Jan	1200	N		ENE	19.5		
16-Jan	1300	N		NE	16.1		
16-Jan	1400	N		ENE	13.9		
16-Jan	1500	N		ENE	10.3		
16-Jan	1600	N		ENE	4.7		
16-Jan	1700	N		ESE	4.7		
16-Jan	1800	N		S	4.7		
16-Jan	1900	N		SW	4.7		
16-Jan	2000	N		SW	5.8		
16-Jan	2100	N		WSW	6.9		
16-Jan	2200	N		WSW	9.2		
16-Jan	2300	N		WSW	10.3		
16-Jan	2400						

Weather: Mostly sunny and colder temperatures

17-Jan	800	N		WSW	12.8		Wind 10 mph to NE in TT
17-Jan	900	N		WSW	12.8		Wind 10 mph to NE in TT
17-Jan	1000	N		WSW	12.8		Wind 10 mph to ENE in TT
17-Jan	1100	N		W	12		Wind 11 mph to ENE in TT
17-Jan	1200	N		W	12		Wind 14 mph to ENE in TT
17-Jan	1300	N		W	13.9		Wind 14 mph to ENE in TT
17-Jan	1400	N		W	13.9		Wind 12 mph to ENE in TT
17-Jan	1500	N		W	12.8		Wind 11 mph to E in TT
17-Jan	1600	N		W	11.4		Wind 10 mph to E in TT
17-Jan	1700	N		W	10.3		Wind 10 mph to E in TT
17-Jan	1800	N		W	9.2		Wind 9 mph to E in TT
17-Jan	1900	N		W	9.2		Wind 9 mph to E in TT
17-Jan	2000	N		W	8.1		Wind 7 mph to E in TT
17-Jan	2100	N		W	6.9		Wind 5 mph to E in TT
17-Jan	2200	N		W	6.9		Wind 4 mph to NNE in TT
17-Jan	2300	N		W	6.9		Wind 4 mph to NNE in TT
17-Jan	2400						

Weather: Mostly sunny and colder temperatures

18-Jan	800	N		W	1.1		Wind 3 mph to E in TT
18-Jan	900	N		W	2.2		Wind 3 mph to E in TT
18-Jan	1000	N		W	4.7		Wind 4 mph to SE in TT
18-Jan	1100	N		W	4.7		Wind 6 mph to SSE in TT
18-Jan	1200	N		W	4.7		Wind 3 mph to SE in TT
18-Jan	1300	N		W	4.7		Wind 4 mph to S in TT
18-Jan	1400	N		W	3.4		Wind 3 mph to SE in TT
18-Jan	1500	N		W	3.4		Wind 3 mph to SSE in TT
18-Jan	1600	N		WSW	2.2		Wind 3 mph to E in TT
18-Jan	1700	N		SW	2.2		Wind 2 mph to E in TT
18-Jan	1800	N		SW	1.1		Wind 0 mph to E in TT
18-Jan	1900	N		SW	1.1		Wind 0 mph to E in TT
18-Jan	2000	N		SSW	1.1		Wind 0 mph to E in TT
18-Jan	2100	N		SSW	1.1		Wind 0 mph to E in TT
18-Jan	2200	N		S	1.1		Wind 0 mph to SE in TT
18-Jan	2300	N		S	1.1		Wind 1 mph to SE in TT
18-Jan	2400						

Weather: Mostly sunny and cold, warming up during the day

19-Jan	800	N		SSW	2.2		
19-Jan	900	Y	L	SSW	3.4	S	Wind 5 mph to NNE in TT
19-Jan	1000	Y	M/H	SW	5.8	S	Wind 14 mph to NE in TT
19-Jan	1100	?	?	SW	6.9		Away from home shopping
19-Jan	1200	N		SW	8.1		Wind 11 mph to NNE in TT
19-Jan	1300	Y	L	SW	8.1	S	Wind 11 mph to NNE in TT
19-Jan	1400	Y	M/H	SW	8.1	S	Wind 12 mph to NNE in TT
19-Jan	1500	Y	L	SW	8.1	S	Wind 10 mph to NNE in TT
19-Jan	1600	Y	M	SSW	8.1	S	Wind 9 mph to NNE in TT
19-Jan	1700	Y	M/H	SSW	5.8	S	Wind 7 mph to NNE in TT
19-Jan	1800	Y	M	SSW	4.7	S	Wind 4 mph to N in TT
19-Jan	1900	Y	M/H	SSW	4.7	S	Wind 3 mph to N in TT
19-Jan	2000	Y	M	SSW	4.7	S	Wind 3 mph to N in TT
19-Jan	2100	Y	M	S	4.7	S	Wind 3 mph to NNE in TT
19-Jan	2200	N		SSW	3.4		Wind 4 mph to NE in TT
19-Jan	2300	N		SSW	3.4		Wind 4 mph to NE in TT
19-Jan	2400	Y	L	SSW	4.7	S	Wind 4 mph to NNE in TT

Weather: Light rain with seasonable temperatures

20-Jan	800	Y	M/H	SSW	3.4	S	Wind 4 mph to NE in TT
20-Jan	900	Y	M/H	SW	3.4	S	Wind 4 mph to NE in TT
20-Jan	1000	Y	M	WSW	3.4	S	Wind 5 mph to NE in TT
20-Jan	1100	Y	L	WSW	3.4	S	Wind 4 mph to NE in TT

20-Jan	1200	N		W	3.4		Wind 4 mph to NE in TT
20-Jan	1300	N		W	3.4		Wind 4 mph to E in TT
20-Jan	1400	N		N	3.4		Wind 3 mph to SE in TT
20-Jan	1500	N		NW	3.4		Wind 6 mph to S in TT
20-Jan	1600	N		N	8.1		Wind 9 mph to S in TT
20-Jan	1700	N		N	8.1		Wind 10 mph to S in TT
20-Jan	1800	N		NNE	10.3		Wind 9 mph to S in TT
20-Jan	1900	N		NNE	10.3		Wind 9 mph to S in TT
20-Jan	2000	N		NNE	11.4		Wind 9 mph to S in TT
20-Jan	2100	N		NNE	11.4		Wind 9 mph to S in TT
20-Jan	2200	N		NNE	10.3		Wind 9 mph to S in TT
20-Jan	2300						Wind 9 mph to S in TT
20-Jan	2400						Wind 9 mph to S in TT

Weather: Cloudy and unseasonably cold with snow late in the day

21-Jan	800	N		NE	10.3		Wind 8 mph to SW in TT
21-Jan	900	N		NE	10.3		Wind 12 mph to SW in TT
21-Jan	1000	N		NE	10.3		Wind 10 mph to SW in TT
21-Jan	1100	N		NE	10.3		Wind 11 mph to SW in TT
21-Jan	1200	N		NE	10.3		Wind 9 mph to SW in TT
21-Jan	1300	N		NE	10.3		Wind 11 mph to SW in TT
21-Jan	1400	N		NE	10.3		Wind 11 mph to SW in TT
21-Jan	1500	N		NE	9.2		Wind 11 mph to SSW in TT
21-Jan	1600	N		NE	9.2		Wind 10 mph to SSW in TT
21-Jan	1700	N		NE	8.1		Wind 9 mph to SSW in TT
21-Jan	1800	N		NE	8.1		Wind 9 mph to SSW in TT
21-Jan	1900	N		NE	8.1		Wind 9 mph to SSW in TT
21-Jan	2000	N		NNE	8.1		Wind 8 mph to SSW in TT
21-Jan	2100	N		NNE	8.1		Wind 8 mph to S in TT
21-Jan	2200	N		NNE	6.9		Wind 7 mph to S in TT
21-Jan	2300	N		NNE	5.8		Wind 6 mph to S in TT
21-Jan	2400	N		NNE	5.8		Wind 7 mph to S in TT

Weather: Sunny and unseasonable cold

22-Jan No smell -- no readings Wind generally out of the North

Weather: Sunny and unseasonably cold

23-Jan	800	Y	L	SW	1.1	S	Wind 3 mph to NNE in TT
23-Jan	900	Y	L/M	SW	1.1	S	Wind 4 mph to NE in TT
23-Jan	1000	Y	M	SW	3.4	S	Wind 6 mph to NE in TT
23-Jan	1100	Y	M	SW	4.7	S	Wind 6 mph to NE in TT
23-Jan	1200	Y	M	SW	5.8	S	Wind 6 mph to NE in TT
23-Jan	1300	Y	M	SW	5.8	S	Wind 7 mph to NE in TT
23-Jan	1400	Y	M	SW	6.9	S	Wind 8 mph to NE in TT
23-Jan	1500	Y	L	SW	6.9	S	Wind 10 mph to NE in TT
23-Jan	1600	N		WSW	6.9		Wind 8 mph to NE in TT
23-Jan	1700	N		SW	4.7		Wind 7 mph to ENE in TT
23-Jan	1800	N		SW	3.4		Wind 3 mph to N in TT
23-Jan	1900	N		SW	3.4		Wind 2 mph to N in TT
23-Jan	2000	N		SSW	3.4		Wind 2 mph to N in TT
23-Jan	2100	Y	L	SSW	4.7	S	Wind 4 mph to NE in TT
23-Jan	2200	Y	L	SSW	5.8	S	Wind 4 mph to NE in TT
23-Jan	2300	Y	L	SSW	5.8	S	Wind 4 mph to ENE in TT
23-Jan	2400	N		W	4.7		Wind 4 mph to ENE in TT

Weather: Sunny and cold with warmer temperatures in afternoon

24-Jan	800	N		W	1.1		Wind 0 mph to NNE in TT
24-Jan	900	N		W	1.1		Wind 1 mph to NNE in TT
24-Jan	1000	Y	L/M	WSW	2.2	S	Wind 3 mph to NNE in TT
24-Jan	1100	Y	M	S	2.2	S	Wind 4 mph to N in TT
24-Jan	1200	Y	M/H	SSW	3.4	S	Wind 6 mph to N in TT
24-Jan	1300	Y	M	SSW	3.4	S	Wind 7 mph to NNE in TT
24-Jan	1400	Y	L	SSW	4.7	S	Wind 9 mph to NE in TT
24-Jan	1500	Y	M	SW	4.7	S	Wind 9 mph to NNE in TT
24-Jan	1600	Y	L	SW	6.9	S	Wind 9 mph to NNE in TT
24-Jan	1700	Y	L	SW	4.7	S	Wind 8 mph to NNE in TT
24-Jan	1800	Y	M	SSW	3.4	S	Wind 3 mph to N in TT
24-Jan	1900	Y	M	SSW	3.4	S	Wind 3 mph to N in TT
24-Jan	2000	Y	M/H	SSW	3.4	S	Wind 3 mph to NNE in TT
24-Jan	2100	Y	M	SSW	3.4	S	Wind 2 mph to E in TT
24-Jan	2200	Y	L	SSW	3.4	S	Wind 3 mph to SE in TT
24-Jan	2300	N		SSW	4.7		Wind 2 mph to SSE in TT
24-Jan	2400	N		SSW	4.7		Wind 2 mph to N in TT

Weather: Partly sunny and cold with seasonable temperature in afternoon

25-Jan	800	N		WSW	3.4		Wind 1 mph to the NNW in TT
25-Jan	900	N		SW	2.2		Wind 3 mph to the N in TT
25-Jan	1000	Y	M	WSW	3.4	S	Wind 4 mph to NE in TT
25-Jan	1100	Y	L	WSW	3.4	S	Wind 3 mph to NE in TT

25-Jan	1200	N		W	2.2		Wind 2 mph to NE in TT
25-Jan	1300	N		W	2.2		Wind 2 mph to N in TT
25-Jan	1400	Y	M	WSW	3.4	S	Wind 4 mph to NE in TT
25-Jan	1500	Y	M/H	WSW	2.2	S	Wind 3 mph to NE in TT
25-Jan	1600	Y	M	W	3.4	S	Wind 3 mph to NE in TT
25-Jan	1700	Y	L	W	2.2	S	Wind 2 mph to NE in TT
25-Jan	1800	N		NW	2.2		Wind 2 mph to NE in TT
25-Jan	1900	N		NW	2.2		Wind 2 mph to NE in TT
25-Jan	2000	N		WNW	2.2		Wind 2 mph to NE in TT
25-Jan	2100	N		N	3.4		Wind 2 mph to ESE in TT
25-Jan	2200	N		N	3.4		Wind 3 mph to ESE in TT
25-Jan	2300	N		N	4.7		Wind 3 mph to SE in TT
25-Jan	2400	N		N	6.9		Wind 4 mph to SSE in TT

Weather: Sunny and windy with unseasonable cold temperatures
 26-Jan No smell -- no readings Wind generally out of the Northwest

Weather: Sunny and windy with unseasonable cold temperatures
 27-Jan No smell -- no readings Wind generally out of the East and Northeast

28-Jan	800	N		NNW	1.1		Wind 0 mph to the N in TT
28-Jan	900	N		NW	1.1		Wind 0 mph to the N in TT
28-Jan	1000	N		SSW	1.1		Wind 2 mph to the NNE in TT
28-Jan	1100	Y	L	SSW	2.2	S	Wind 2 mph to the NNE in TT
28-Jan	1200	Y	L	SSW	2.2	S	Wind 2 mph to the NNE in TT
28-Jan	1300	Y	L	SSW	2.2	S	Wind 2 mph to the N in TT
28-Jan	1400	Y	L/M	SSW	2.2	S	Wind 5 mph to the NE in TT
28-Jan	1500	Y	L/M	SW	3.4	S	Wind 5 mph to the NE in TT
28-Jan	1600	Y	M	SW	4.6	S	Wind 5 mph to the NE in TT
28-Jan	1700	Y	M	W	3.4	S	Wind 3 mph to the NNE in TT
28-Jan	1800	Y	L	WNW	3.4	S	Wind 3 mph to NE in TT
28-Jan	1900	N		WNW	3.4		Wind 2 mph to E in TT
28-Jan	2000	N		NW	5.8		Wind 4 mph to SE in TT
28-Jan	2100	N		NNW	9.2		Wind 7 mph to S in TT
28-Jan	2200	N		NNW	9.2		Wind 8 mph to S in TT
28-Jan	2300	N		NNW	10.3		Wind 8 mph to SE in TT
28-Jan	2400	N					Wind 8 mph to SE in TT

Weather: Snow overnight with sun during the day with unseasonable cold weather
 29-Jan No smell -- no readings Wind generally out of the West and Northwest

30-Jan	800	N		S	4.7		Wind 3 mph to N in TT
30-Jan	900	N		SSW	5.8		Wind 7 mph to N in TT
30-Jan	1000	Y	M	SSW	8.1	S	Wind 8 mph to NNE in TT
30-Jan	1100	Y	M/H	SSW	9.2	S	Wind 9 mph to NE in TT
30-Jan	1200	Y	M	SSW	10.3	S	Wind 10 mph to N in TT
30-Jan	1300	Y	M	SSW	10.3	S	Wind 10 mph to NE in TT
30-Jan	1400	Y	M	SW	11.4	S	Wind 10 mph to NE in TT
30-Jan	1500	Y	M	SW	11.4	S	Wind 13 mph to NNE in TT
30-Jan	1600	Y	M	SW	12.8	S	Wind 10 mph to NNE in TT
30-Jan	1700	Y	L/M	SW	10.3	S	Wind 6 mph to N in TT
30-Jan	1800	Y	L/M	SSW	8.1	S	Wind 3 mph to NNW in TT
30-Jan	1900	Y	L	SSW	8.1	S	Wind 3 mph to NNW in TT
30-Jan	2000	N		SSW	5.8		Wind 2 mph to NNW in TT
30-Jan	2100	N		SSW	4.7		Wind 3 mph to NNW in TT
30-Jan	2200	N		SW	4.7		Wind 1 mph to NW in TT
30-Jan	2300	N		WSW	4.7		Wind 1 mph to SW in TT
30-Jan	2400	N		W	3.4		Wind 1 mph to WSW in TT

31-Jan	800	N		N	1.1		Wind 0 mph to N in TT
31-Jan	900	N		N	1.1		Wind 0 mph to N in TT
31-Jan	1000	N		NE	2.2		Wind 2 mph to N in TT
31-Jan	1100	?		E	2.2		Away from home
31-Jan	1200	?		SE	2.2		Away from home
31-Jan	1300	N		SE	2.2		Wind 2 mph N in TT
31-Jan	1400	N		S	2.2		Wind 3 mph to NNW in TT
31-Jan	1500	Y	L	SSW	2.2	S	Wind 3 mph to NNE in TT
31-Jan	1600	Y	L	SW	3.4	S	Wind 2 mph N in TT
31-Jan	1700	N		SW	2.2		Wind 2 mph N in TT
31-Jan	1800	N		ESE	2.2		Wind 1 mph to ENE
31-Jan	1900	N		ESE	2.2		Wind 1 mph to ENE
31-Jan	2000	N		ENE	1.1		Wind 1 mph to ENE
31-Jan	2100	N		ENE	3.4		Wind 2 mph to ENE
31-Jan	2200	Y	L/M	NNE	4.2	S	Wind 2 mph to NNE in TT
31-Jan	2300	Y	M	SW	4.3	S	Wind 1 mph to NNE in TT

31-Jan

2400

Y

M

SW

4.4

S

Wind 1 mph to NNE in TT

Wind & Smell Data Worksheet -- Tree Tops Community

Readings taken February 7 to 28, 2022

Majority of data points were taken at 1809 Tranquility Blvd. in Tree Tops

Key for Spreadsheet Headings:

<p>1. Smell Intensity:</p> <p><u>L</u>ow -- can detect odor</p> <p><u>M</u>edium - consistent & pervasive smell</p> <p><u>H</u>igh -- pervasive intensive overpowering smell</p>
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Catawba Wind Forecast -- ZIP 29704
[Graphs \(willyweather.com\)](http://Graphs(willyweather.com))

2. Wind "From" Direction & Wind Speed Collected from willyweather.com
3. Smell Type - Sweet Chemical, Rotten Egg, Other
4. Wind Direction "To" in TT Community from The Weather Channel on iPhone

Date	Time	Smell Detected	1. Smell Intensity (L, M, H)	2. Wind "From" Direction	2. Wind Speed	3. Smell Type	4. Wind Direction "To" In Tree Tops Community
Weather: Cloudy and rain with unseasonably colder temperatures							
7-Feb			No smell -- no readings				Wind generally out of the West and Northwest
Weather: Cloudy and unseasonably cold							
8-Feb			No smell -- no readings				Wind generally out of the North and Northwest
Weather: Sunny and seasonable temperatures							
9-Feb	800	N		WSW	1.1		Wind 2 mph to NNE in TT
9-Feb	900	Y	L	SW	1.1	S	Wind 2 mph to NNE in TT
9-Feb	1000	Y	M	SSW	2.2	S	Wind 2 mph to NNE in TT
9-Feb	1100	Y	M	SSW	3.4	S	Wind 5 mph to NNE in TT
9-Feb	1200	Y	M	SSW	5.8	S	Wind 7 mph to NNE in TT
9-Feb	1300	Y	L/M	SW	8.1	S	Wind 10 mph to NNE in TT
9-Feb	1400	Y	L	SW	8.1	S	Wind 7 mph to NE in TT
9-Feb	1500	N		SW	8.1		Wind 5 mph to ENE in TT
9-Feb	1600	Y	M	SW	6.9	S	Wind 7 mph to NE in TT
9-Feb	1700	Y	M	SW	4.7	S	Wind 10 mph to N in TT
9-Feb	1800	Y	M	SW	3.4	S	Wind 6 mph to N in TT
9-Feb	1900	Y	M	SSW	3.4	S	Wind 4 mph to N in TT
9-Feb	2000	Y	L	SSW	4.7	S	Wind 3 mph to NNE in TT
9-Feb	2100	Y	L	SSW	4.7	S	Wind 3 mph to NNE in TT
9-Feb	2200	Y	L	SW	5.8	S	Wind 3 mph to N in TT
9-Feb	2300	Y	L	SW	6.9	S	Wind 4 mph to N in TT
9-Feb	2400						
Weather: Sunny and windy with seasonable temperatures							
10-Feb	800	N		SW	2.2		Wind 5 mph to N in TT
10-Feb	900	Y		SW	4.7	S	Wind 7 mph to NNE in TT
10-Feb	1000	Y		SW	5.7	S	Wind 8 mph to NNE in TT
10-Feb	1100	N		SW	5.7		Wind 10 mph to NE in TT
10-Feb	1200	N		SW	8.1		Wind 12 mph to ENE in TT
10-Feb	1300	N		SW	8.1		Wind 11mph to ENE in TT
10-Feb	1400	N		WSW	10.3		Wind 10 mph to ENE in TT
10-Feb	1500	N		WSW	11.4		Wind 10 mph to ENE in TT
10-Feb	1600	N		WSW	11.4		Wind 8 mph to ENE in TT
10-Feb	1700	N		WSW	9.2		Wind 6 mph to ENE in TT
10-Feb	1800	N		SW	6.9		Wind 5 mph to ENE in TT
10-Feb	1900	N		SW	6.9		Wind 5 mph to NE in TT
10-Feb	2000	Y	L	SW	5.8	S	Wind 4 mph to NNE in TT
10-Feb	2100	Y	L	SW	4.7	S	Wind 3 mph to NNE in TT
10-Feb	2200	Y	M	WSW	4.7	S	Wind 3 mph to NE in TT
10-Feb	2300	Y	M	WSW	4.7	S	Wind 3 mph to NE in TT
10-Feb	2400	Y	M	SW	3.4	S	Wind 3 mph to NE in TT
Weather: Sunny and windy above average temperature							
11-Feb	800	N		SSW	2.2		Wind 3 mph to NNE in TT
11-Feb	900	Y	M	SSW	3.4	S	Wind 4 mph to NNE in TT
11-Feb	1000	Y	M	SW	4.7	S	Wind 5 mph to NE in TT
11-Feb	1100	Y	M	SW	6.9	S	Wind 5 mph to NE in TT
11-Feb	1200	Y	L	SW	8.1	S	Wind 10 mph to NE in TT
11-Feb	1300	N		SW	8.1		Wind 12 mph to NE in TT
11-Feb	1400	N		SW	9.2		Wind 12 mph to NE in TT
11-Feb	1500	N		SW	10.3		Wind 11 mph to NE in TT
11-Feb	1600	N		SW	10.3		Wind 11 mph to NE in TT
11-Feb	1700	N		SSW	8.1		Wind 10 mph to NNE in TT
11-Feb	1800	N		SSW	6.9		Wind 9 mph to NE in TT
11-Feb	1900	N		SSW	5.8		Wind 7 mph to NE in TT
11-Feb	2000	N		SSW	4.7		Wind 7 mph to NE in TT
11-Feb	2100	Y	L	SSW	3.4	S	Wind 7 mph to NE in TT
11-Feb	2200	Y	L	SSW	5.8	S	Wind 6mph to NE in TT
11-Feb	2300	Y	L/M	SSW	5.8	S	Wind 6 mph to NE in TT
11-Feb	2400	Y	M	SSW	6.9	S	Wind 5 mph to NNE in TT
Weather: Sunny and windy above average temperature							

12-Feb	800	Y	M	SW	3.4	S	Wind 4 mph to NE in TT
12-Feb	900	Y	H	SW	5.9	S	Wind 5 mph to NE in TT
12-Feb	1000	Y	M/H	WSW	6.7	S	Wind 5 mph to NE in TT
12-Feb	1100	?		WSW	6.9		?
12-Feb	1200	?		WSW	6.9		?
12-Feb	1300	Y	M	SW	5.8	S	Wind 9 mph to NE in TT
12-Feb	1400	Y	M	SW	6.9	S	Wind 10 mph to NE in TT
12-Feb	1500	Y	M	SW	6.9	S	Wind 10 mph to NE in TT
12-Feb	1600	Y	M	SW	5.8	S	Wind 9 mph to NE in TT
12-Feb	1700	Y	M	SW	4.7	S	Wind 9 mph to NE in TT
12-Feb	1800	Y	M	SW	3.4	S	Wind 8 mph to N in TT
12-Feb	1900	Y	L	SWS	3.4	S	Wind 7 mph to N in TT
12-Feb	2000	N		S	3.4		Wind 6 mph to NE in TT
12-Feb	2100	N		SSW	3.4		Wind 6 mph to NE in TT
12-Feb	2200	N		SSW	4.7		Wind 6 mph to NE in TT
12-Feb	2300	N		SW	3.4		Wind 5 mph to NE in TT
12-Feb	2400	N					Wind 5 mph to NE in TT
Weather:	Cloudy and windy with unseasonably cold weather						
13-Feb	No smell -- no readings						
	Winds generally out of the North and Northwest						
Weather:	Sunny with unseasonably cold weather						
14-Feb	No smell -- no readings						
	Winds generally out of the West						
Weather:	Sunny with seasonable temperatures						
15th	No smell -- no readings						
	Winds generally out East						
Weather:	Sunny with seasonable temperatures						
16th	No smell -- no readings						
	Winds generally out East and Southeast						
Weather:	Sunny with temperatures well above seasonable averages						
17th	No smell -- no readings						
	Winds generally out of the South						
Weather:	Sunny with temperatures well above seasonable averages						
18th	No smell -- no readings						
	Winds generally out of the West and Northwest						
Weather:	Sunny and windy with seasonable temperatures						
19th	No smell -- no readings						
	Winds generally out of the West and Northwest						
Weather:	Sunny and windy with seasonable temperatures						
20th	No smell -- no readings						
	Winds generally out of the West and South						
Weather:	Sunny and windy with seasonable temperatures						
21st	No smell -- no readings						
	Winds generally out of the West						
Weather:	Mostly cloudy and windy with seasonable temperatures						
22nd	Away from home part of day -- some smell						
	Winds were dynamic and changing all day						
Weather:	Overcast with occasional light rain with seasonable temperatures						
23-Feb	800	N		SSW	6.9		Wind 1 mph to the E in TT
23-Feb	900	N		SW	6.9	S	Wind 3 mph to ENE in TT
23-Feb	1000	Y	L	SW	5.8	S	Wind 3 mph to NNE in TT
23-Feb	1100	Y	L/M	SW	6.9	S	Wind 6 mph to NNE in TT
23-Feb	1200	Y	M	SW	5.8	S	Wind 6 mph to NE in TT
23-Feb	1300	Y	M	SW	5.8	S	Wind 7 mph to NE in TT
23-Feb	1400	Y	M	WSW	5.8	S	Wind 7 mph to NE in TT
23-Feb	1500	Y	L/M	SW	5.8	S	Wind 6 mph to NNE in TT
23-Feb	1600	Y	L	W	5.8	S	Wind 4 mph to NNE in TT
23-Feb	1700	Y	L	W	4.7	S	Wind 3 mph to NE in TT
23-Feb	1800	N		WNW	4.7		Wind 2 mph to N in TT
23-Feb	1900	N		WNW	2.2		Wind 2 mph to NE in TT
23-Feb	2000	N		NW	1.1		Wind 1 mph to the E in TT
23-Feb	2100	N		NNW	1.1		Wind 1 mph to the E in TT
23-Feb	2200	N		NNW	2.2		Wind 1 mph to the SE in TT
23-Feb	2300	N		N	2.2		Wind 1 mph to SE in TT
23-Feb	2400	N		NNE	2.2		Wind 2 mph to S in TT
Weather:	Overcast and windy with seasonable temperatures						
24th	No smell -- no readings						
	Winds generally out of the East						
Weather:	Overcast and windy with warm temperatures						
25-Feb	800	N		SW	4.7		Wind 2 mph to the N in TT
25-Feb	900	Y	L	SW	5.8	S	Wind 4 mph to NNE in TT
25-Feb	1000	Y	M	SW	10.3	S	Wind 6 mph to NNE in TT
25-Feb	1100	Y	L/M	WSW	10.3	S	Wind 9 mph to NE in TT
25-Feb	1200	N		WSW	10.3		Wind 10 mph to ENE in TT
25-Feb	1300	N		WSW	10.3		Wind 11 mph to ENE in TT
25-Feb	1400	N		WSW	10.3		Wind 12 mph to ENE in TT
25-Feb	1500	N		WSW	10.3		Wind 11 mph to ENE in TT
25-Feb	1600	N		W	10.3		Wind 11 mph to ENE in TT
25-Feb	1700	N		W	9.2		Wind 10 mph to ENE in TT
25-Feb	1800	N		WNW	6.9		Wind 8 mph to E
25-Feb	1900	N		WNW	6.9		Wind 9 mph to E
25-Feb	2000	N		NW	5.8		Wind 8 mph to SE
25-Feb	2100	N		N	6.9		Wind 7 mph to SSE

25-Feb	2200	N	N	6.9
25-Feb	2300	N	NNE	6.9
25-Feb	2400	N	NNE	8.1

Wind 6 mph to S in TT
Wind 6 mph to S in TT
Wind 5 mph to S in TT

Weather: Overcast and windy with seasonable temperatures
26th No smell -- no readings

Winds generally out of the East and Northeast

Weather: Overcast and rainy with unseasonable cold temperatures
27th No smell -- no readings

Winds generally out of the East

Weather: Partly sunny and cold early with seasonable temperatures in the afternoon
28th No smell -- no readings

Winds generally out of the East

Wind & Smell Data Worksheet -- Tree Tops Community

Readings taken March 1 to 7, 2022

Key for Spreadsheet Headings:

<p>1. Smell Intensity:</p> <p><u>L</u>ow -- can detect odor</p> <p><u>M</u>edium - consistent & pervasive smell</p> <p><u>H</u>igh -- pervasive intensive overpowering smell</p>
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[Catawba Wind Source -- ZIP 29704](#)
[Graphs \(willyweather.com\)](#)

2. Wind "From" Direction & Wind Speed Collected from willyweather.com

3. Smell Type - Sweet Chemical, Rotten Egg, Other

4. Wind Direction "To" from The Weather Channel on iPhone

Date	Time	Smell Detected	1. Smell Intensity (L, M, H)	2. Wind "From" Direction	2. Wind Speed	3. Smell Type	4. Wind Direction "To" In Tree Tops Community
Weather: Sunny and cool to start with seasonal temperatures							
1-Mar	800	N		SSE	0		Wind 2 mph to NNW
1-Mar	900	N		SSE	1.1		Wind 3 mph to NNW
1-Mar	1000	N		SSE	2.2		Wind 3 mph to N
1-Mar	1100	N		S	3.4		Wind 3 mph to NNE
1-Mar	1200	Y	M	SW	3.4	S	Wind 4 mph to NNE
1-Mar	1300	Y	M	SW	3.4	S	Wind 3 mph to NE
1-Mar	1400	N		WSW	4.7		Wind 5 mph to NE
1-Mar	1500	Y	L	WSW	5.8	S	Wind 6 mph to NE
1-Mar	1600	Y	M	SW	5.8	S	Wind 6 mph to NE
1-Mar	1700	Y	M	SW	5.8	S	Wind 7 mph to NE
1-Mar	1800	Y	M	SW	3.4	S	Wind 5 mph to NNE
1-Mar	1900	Y	L	SW	3.4	S	Wind 4 mph to NNE
1-Mar	2000	Y	L	SW	3.4	S	Wind 3 mph to N
1-Mar	2100	N		SW	3.4		Wind 2 mph to N
1-Mar	2200	N		SSE	3.4		Wind 2 mph to NW
1-Mar	2300	N		SSE	3.4		Wind 2 mph to NW
1-Mar	2400	N		SSE	3.4		Wind 1 mph to WNW
Weather: Sunny with temperatures above average							
2nd				Some smell late evening -- wind out of SW at that time			Winds generally out of the West during day
Weather: Sunny with temperatures well above average							
3-Mar	800	Y	L	WSW	3.4		Wind 3 mph to NE
3-Mar	900	Y	L	WSW	3.4		Wind 4 mph to NE
3-Mar	1000	Y	L	WSW	5.8		Wind 4 mph to NE
3-Mar	1100	N		WSW	5.8		Wind 4 mph to NE
3-Mar	1200	N		WSW	6.9		Wind 4 mph to NE
Departed for Burlington for remainder of day							
Weather: Sunny with seasonable temperatures							
4th				No smell -- no readings			Winds generally out of the East during day
Weather: Party cloudy with seasonable temperatures							
5th				No smell -- no readings			Winds generally out of the East and South
Weather: Mostly sunny with record high temperatures							
6-Mar	800	Y	L	SSW	5.8	S	Wind 8 mph to NE
6-Mar	900	Y	M	SSW	8.1	S	Wind 11 mph to NE
6-Mar	1000	Y	M	SSW	11.4	S	Wind 13 mph to NE
6-Mar	1100	Y	M	SW	12.8	S	Wind 14 mph to NNE
6-Mar	1200	Y	L/M	SW	12.8	S	Wind 13 mph to NE
6-Mar	1300	Y	M	SW	12.8	S	Wind 13 mph to NNE
6-Mar	1400	Y	L	SW	12.8	S	Wind 12 mph to NNE
6-Mar	1500	Y	L	SW	12.8	S	Wind 12 mph to NNE
6-Mar	1600	Y	M	SW	11.4	S	Wind 12 mph to NNE
6-Mar	1700	Y	L	SSW	9.2	S	Wind 10 mph to NNE
6-Mar	1800	Y	L	SSW	6.9	S	Wind 8 mph to NNE
6-Mar	1900	Y	L	SSW	6.9	S	Wind 8 mph to NNE
6-Mar	2000	Y	L	S	5.8	S	Wind 6 mph to NNE
6-Mar	2100	N		S	5.8		Wind 6 mph to N
6-Mar	2200	N		S	5.8		Wind 6 mph to N
6-Mar	2300	N		S	6.9		Wind 6 mph to N
6-Mar	2400	N		S	8.1		Wind 8 mph to N
Weather: Mostly sunny with seasonal temperatures							
7-Mar	800	Y	M	SSW	10.3	S	Wind 11 mph to NNE
7-Mar	900	Y	M/H	SSW	11.4	S	Wind 12 mph to NNE
7-Mar	1000	Y	M	SSW	11.4	S	Wind 13 mph to NNE
7-Mar	1100	Y	M	SW	15	S	Wind 17 mph to NNE
7-Mar	1200	Y	M	SW	16.1	S	Wind 18 mph to NNE
7-Mar	1300	Y	M	SW	16.1	S	Wind 18 mph to NNE
7-Mar	1400	Y	M	SW	17.2	S	Wind 18 mph to NNE

7-Mar	1500	Y	M	SW	18.3	S	Wind 18 mph to NNE
7-Mar	1600	Y	M	SW	17.2	S	Wind 18 mph to NNE
7-Mar	1700	Y	M	SW	16.1	S	Wind 17 mph to NNE
7-Mar	1800	Y	M	SW	13.9	S	Wind 17 mph to NNE
7-Mar	1900	Y	L	SW	13.9	S	Wind 15 mph to NNE
7-Mar	2000	Y	L	SW	11.4	S	Wind 13 mph to NE
7-Mar	2100	Y	L	WSW	10.3	S	Wind 8 mph to NE
7-Mar	2200	Y	L	WSW	6.9	S	Wind 6 mph to NE
7-Mar	2300	Y	L	WSW	6.9	S	Wind 6 mph to NE
7-Mar	2400			W	5.8		