

TCEQ Handheld Monitoring Equipment Data

Severe Cold Weather Event – February 2021

In response to the severe winter weather event in February of 2021, the TCEQ began conducting handheld air monitoring surveys along the industrial corridors of the Texas Gulf Coast to assess air quality. Air monitoring is being conducted by regional staff using handheld equipment (primarily RAE instruments). These instruments provide instantaneous readings for various compounds and parameters that may include the lower explosive limit (LEL), volatile organic compounds (VOC), hydrogen sulfide (H₂S), carbon monoxide (CO), sulfur dioxide (SO₂), chlorine (Cl₂), ammonia (NH₃), hydrogen cyanide (HCN), and oxygen (O₂). Monitoring began while many facilities were shutdown, will continue as facilities startup, and conclude after startups are complete.

Sample results from TCEQ's handheld monitoring equipment are listed below, including observations of odor. Some normal levels, also known as background levels, of VOCs may be noted to be below 3 ppm. Data is updated as information becomes available.

Region 10 - Beaumont

February 26 - 28, 2021

Team	Date	Time	Location Description	City	Other Notes/ Observations	Instrument	LEL	VOC	H2S	O2	SO2
TCEQ Team 2	2/26/2021	9:51 AM	Hemlock and Grant intersection	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/26/2021	10:03 AM	141 Burt Street	Beaumont	No odor	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/26/2021	10:08 AM	1368 Doucette	Beaumont	No odors. Flaring at ExxonMobil Beaumont Refinery with no smoke.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	10:15 AM	4900 Shreveport Avenue	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		1.3	0	20.9%	0
TCEQ Team 2	2/26/2021	10:16 AM	1310 Van Buren	Beaumont	No odors at New Deliverance Church. Flaring visible from ExxonMobil Beaumont Refinery with no smoke.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/26/2021	10:25 AM	Sycamore and Fulton intersection	Beaumont	Intermittent Plant Odors	MultiRAE or MiniRAE		0	0	20.9%	0
TCEQ Team 1	2/26/2021	10:30 AM	107 HO Mills Boulevard	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		1.4	0	20.9%	0
TCEQ Team 2	2/26/2021	10:46 AM	Gulf States Road near Tank 5011	Beaumont	No odor. Light smoking flare. ExxonMobil Refinery near Tank 5011.	MultiRAE or MiniRAE	0	0	0	20.9%	
TCEQ Team 1	2/26/2021	11:05 AM	2555 Savannah Avenue	Port Arthur	Light aromatic odor	MultiRAE or MiniRAE, and AreaRAE		1.5	0	20.9%	0
TCEQ Team 2	2/26/2021	11:06 AM	2775 Gulf States Road	Beaumont	Refinery Flare smoking for 2 minutes. No odors.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	11:22 AM	Savannah Ave and 25th Street	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		2.5	0	20.9%	0
TCEQ Team 1	2/26/2021	11:42 AM	201 19th Street	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		0.9	0	20.9%	0
TCEQ Team 2	2/26/2021	11:55 AM	2775 Gulf States Road	Beaumont	Flare observed smoking at 1106 hours was no longer smoking at this time. No odors.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	11:58 AM	State Hwy 87 and 82	Port Arthur	Light asphalt odors	MultiRAE or MiniRAE, and AreaRAE		1.9	0	20.9%	0
TCEQ Team 1	2/26/2021	12:15 PM	2001 State Hwy. 87	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		0.9	0	20.9%	0
TCEQ Team 2	2/26/2021	12:15 PM	Lamar University WS Bud Leonard Field agate 4	Beaumont	No odors.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	12:30 PM	2400 South Gulfway Drive	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		0.9	0	20.9%	0
TCEQ Team 1	2/26/2021	1:05 PM	2658 Pure Atlantic Road	Port Arthur	Light aromatic odors	MultiRAE or MiniRAE, and AreaRAE		1.7	0	20.9%	0

Team	Date	Time	Location Description	City	Other Notes/ Observations	Instrument	LEL	VOC	H2S	O2	SO2
TCEQ Team 1	2/26/2021	1:28 PM	7629 39th Street	Port Arthur	No odor	MultiRAE or MiniRAE, and AreaRAE		1.3	0	20.9%	0
TCEQ Team 1	2/26/2021	1:40 PM	4120 Coke Road	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		1.1	0	20.9%	0
TCEQ Team 1	2/26/2021	1:50 PM	4438 Atlantic Road	Port Arthur	No odors	MultiRAE or MiniRAE, and AreaRAE		0.2	0	20.9%	0
TCEQ Team 2	2/26/2021	2:10 PM	FM-1006 and Irving intersection	Orange	No odors.	MultiRAE or MiniRAE	0	0	0	21.1%	0
TCEQ Team 1	2/26/2021	2:15 PM	6001 FM 366	Groves	3 flares observed at Indorama with steam. None was smoking.	MultiRAE or MiniRAE, and AreaRAE		1.2	0	20.9%	0
TCEQ Team 2	2/26/2021	2:24 PM	FM 1006 50 yards west of DOWs main gate	Orange	No odors.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	2:30 PM	6400 Van Buren Blvd	Groves	No odors	MultiRAE or MiniRAE, and AreaRAE		0.1	0	20.9%	0
TCEQ Team 2	2/26/2021	2:34 PM	FM-1006 approximately 100 yards east of Arlanxeo Main Gate	Orange	Moderate chemical rubber odor.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/26/2021	2:44 PM	FM-1006, approximately 50 yards east of Chevron Phillips Main Gate	Orange	No odors.	MultiRAE or MiniRAE	0	0	0	21.1%	0
TCEQ Team 2	2/26/2021	2:56 PM	FM-1006 and Roundbunch Road approximately 50 yards south	Orange	No odors. Flaring observes with no smoke.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/26/2021	3:06 PM	3007 Burnet	Orange	Strong sulfur odor.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	3:08 PM	2116 SH 136	Port Neches	No odors	MultiRAE or MiniRAE, and AreaRAE		0.3	0	20.9%	0
TCEQ Team 2	2/26/2021	3:14 PM	West Orange Stark High School Football Stadium Visitor Parking Area	Orange	Intermittent Very Light Sulfur Odor.	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/26/2021	3:20 PM	1606 Park Street	Port Neches	Very light aromatic odor	MultiRAE or MiniRAE, and AreaRAE		1.8	0	20.9%	0
TCEQ Team 1	2/26/2021	3:45 PM	5470 N Twin City	Nederland	No odors	MultiRAE or MiniRAE, and AreaRAE		1.3	0	20.9%	0
TCEQ Team 2	2/27/2021	9:33 AM	Cuniff St.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/27/2021	9:44 AM	Carroll St. and Grant St.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	9:55 AM	48th St & Shreveport Ave	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	10:10 AM	48th St & Waco Ave	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	10:20 AM	47th St & Austin Ave	Port Arthur	Very light gasoline odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 2	2/27/2021	10:22 AM	Hemlock St. and Fulton Ave.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0

Team	Date	Time	Location Description	City	Other Notes/ Observations	Instrument	LEL	VOC	H2S	O2	SO2
TCEQ Team 2	2/27/2021	10:40 AM	Montagne Center (S ML King Jr Pkwy)	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	10:47 AM	Terrace Ave & 50th St	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 1	2/27/2021	11:02 AM	Linkwood St & Austin Ave	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 2	2/27/2021	11:02 AM	N DuPont Rd.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/27/2021	11:10 AM	S DuPont Rd.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	11:20 AM	Savannah Ave & Hwy 73	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 2	2/27/2021	11:24 AM	N Twin City Hwy and Spring St.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	11:32 AM	Atlanta Ave & 18th St	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	21.1%	0
TCEQ Team 2	2/27/2021	11:44 AM	Fulton Ave. and Hemlock St.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/27/2021	11:54 AM	Carroll St. and Grant St.	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	12:00 PM	Dr. MLK Jr Blvd	Port Arthur	Very light sulfur H2S odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 2	2/27/2021	12:04 PM	Charlton-Pollard Elementary School (Jackson St.)	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 1	2/27/2021	12:15 PM	Dunbar Ave & Rev. Dr. Ransom Howard St W	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 1	2/27/2021	12:33 PM	2001 S Gulfway Dr	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.2	0	20.9%	0
TCEQ Team 1	2/27/2021	12:54 PM	SH 82 & SH 87	Port Arthur	Very light sulfur refinery odors	MultiRAE or MiniRAE	0	0.2	0	20.9%	0
TCEQ Team 1	2/27/2021	1:16 PM	SH 73 Frontage Road & Taft Ave	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.2	0	20.9%	0
TCEQ Team 1	2/27/2021	1:30 PM	SH 366 & 32nd St	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 1	2/27/2021	1:49 PM	39th St & Coke Rd	Port Arthur	No odors	MultiRAE or MiniRAE	0	0.2	0	20.9%	0
TCEQ Team 1	2/27/2021	2:00 PM	Hogaboom Rd & SH 366	Groves	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 1	2/27/2021	2:25 PM	SH 366 & Orchard St	Port Neches	No odors	MultiRAE or MiniRAE	0	0.1	0	20.9%	0
TCEQ Team 1	2/27/2021	2:37 PM	Park St & Ave J	Port Neches	No odors	MultiRAE or MiniRAE		0.1			
TCEQ Team 1	2/27/2021	2:42 PM	Park St & Ave D	Port Neches	No odors	MultiRAE or MiniRAE		0.2			
TCEQ Team 1	2/27/2021	2:49 PM	Grigsby Ave & Neches Dr	Port Neches	Light butadiene odors	MultiRAE or MiniRAE		0.2			
TCEQ Team 1	2/28/2021	9:37 AM	5905 Ohio Street	Beaumont	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/28/2021	9:41 AM	Dauphin athletics complex; Lamar university	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0

Team	Date	Time	Location Description	City	Other Notes/ Observations	Instrument	LEL	VOC	H2S	O2	SO2
TCEQ Team 1	2/28/2021	9:53 AM	Du Pont Rd	Nederland	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/28/2021	9:58 AM	alma @ highland Ave.	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	9:59 AM	5479 TX 346	Nederland	No odors	MultiRAE or MiniRAE	0	0	0	20.9%	0
TCEQ Team 2	2/28/2021	10:06 AM	Poplar @ Madison	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	10:15 AM	1800 blk N Peterson	Nederland	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 2	2/28/2021	10:16 AM	Charlton Pollard Elementary School	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	10:23 AM	Port @ Buford; Starlight church	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	10:31 AM	Doucette @ Sycamore	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	10:39 AM	2726 block Gulf States road, Exxon	Beaumont	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	10:40 AM	700 Blk HO Mills	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 2	2/28/2021	10:46 AM	2754 block Gulf states road, Arkema	Beaumont	Musky tart odor, pungent	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	10:50 AM	Gate 18, Savannah Avenue	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 2	2/28/2021	10:53 AM	2782 block gulf states road; Martin	Beaumont	No odor	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	11:00 AM	1900 Blk of San Antonio Avenue	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	11:13 AM	16th Street and Hwy 82	Port Arthur	Very Light to Light petroleum odors, intermittent.	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	11:25 AM	1801 S Gulfway Drive	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	11:40 AM	2450 S Gulfway Drive	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	11:56 AM	Lincoln Middle School, 1023 Abe Lincoln Avenue	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 2	2/28/2021	11:56 AM	Burnett @ Chem 32	West Orange	Intermittent burnt chemical odor	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	12:11 PM	FM 1006 @ Lion Elastomers	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	12:17 PM	5000 Blk of 39th Street	Groves	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 2	2/28/2021	12:18 PM	FM 1006 @ Arlanxeo	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	12:24 PM	2739 FM 1006; Invista	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 2	2/28/2021	12:29 PM	FM 1006 @ East New York, Faith Tabernacle	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	12:39 PM	SH 87 @ BASF side Gate	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0

Team	Date	Time	Location Description	City	Other Notes/ Observations	Instrument	LEL	VOC	H2S	O2	SO2
TCEQ Team 2	2/28/2021	12:49 PM	Echo Road, adjacent to Orion	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	12:50 PM	Locust and 32nd Street	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	1:01 PM	3700 Blk of Locust Avenue	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.4%	0
TCEQ Team 2	2/28/2021	1:06 PM	IP Way @ Old 87	Orange	No odors	MultiRAE or MiniRAE		0	0		0
TCEQ Team 1	2/28/2021	1:14 PM	Groves Middle School 5201 Wilson Street	Groves	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	1:29 PM	5000 Atlantic Road	Port Arthur	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	1:39 PM	Atlantic Road, Orchard Avenue	Port Neches	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	1:48 PM	200 Blk of Atlantic Road	Port Neches	No odors	MultiRAE or MiniRAE	0	0	0	21.3%	0
TCEQ Team 1	2/28/2021	1:56 PM	100 Blk of Grigsby Avenue	Port Neches	No odors	MultiRAE or MiniRAE	0	0	0	21.2%	0
TCEQ Team 1	2/28/2021	2:07 PM	Port Neches / Groves High School, 1401 Merriman	Port Neches	No odors	MultiRAE or MiniRAE	0	0	0	21.2%	0