

TCEQ Handheld Monitoring Equipment Data

TPC Group Fire – November 2019

Shortly after becoming aware of the fire at TPC Group Port Neches Operations that began on November 27, 2019, TCEQ Regional staff initiated handheld monitoring surveys in the area. MultiRAEs, QRAEs, AreaRAEs, MiniRAEs, UltraRAEs, VRAEs, and Toxic Vapor Analyzers with various sensors were used for all survey activities. These instruments provide instantaneous readings for various compounds that may include the lower explosive limit (LEL), volatile organic compounds (VOC), hydrogen sulfide (H₂S), carbon monoxide (CO), sulfur dioxide (SO₂), benzene, 1,3 butadiene, hydrogen cyanide (HCN), and oxygen.

Sample results from TCEQ's handheld monitoring equipment are listed below, including observations of odor. This incident is causing the release of chemicals called VOCs. Elevated levels of VOCs from this facility are odorous. Short-term exposure to high concentrations of VOCs can cause eye, nose, and throat irritation, shortness of breath, headaches, and nausea. If you experience these health effects leave the area until the situation has resolved.

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Saturday, December 7, 2019												
12/7/2019	Ridgewood Elementary School, 2820 Merriman St., Port Neches, TX	6:34 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Neches Middle School, 749 Central Ave., Port Neches, TX	6:49 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Neches Park, 1769 Merriman St., Port Neches, TX	6:59 PM	MiniRAE/ UltraRAE	0%	0.15 ppm	0 ppm	3 ppm	20.9%				No odors
12/7/2019	Effie & Wilton Hebert Public Library, 2025 Merriman St., Port Neches, TX	7:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Neches - Groves High School, 1401 Merriman St., Port Neches, TX	7:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	First Baptist Church of Port Neches, 1900 Magnolia Ave., Port Neches, TX	7:14 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Orchard Ave./366, Port Neches, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.7%				No odors
12/7/2019	Highland Park Elementary, 200 S. 6th St., Nederland, TX	7:31 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	2764 Merriman St., Port Neches, TX	7:33 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	7:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Central Middle School, 200 N 17th St., Nederland, TX	7:44 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	366 near Park St., Port Neches, TX	7:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Helena Park Elementary School, 2800 Helena Ave., Nederland, TX	7:56 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	3685 61st St., Port Arthur, TX	7:56 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	St. Charles Borromeo Catholic Church, 211 Hardy Ave., Nederland, TX	8:06 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	854 Magnolia Ave., Port Neches, TX	8:10 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/ Observations
Saturday, December 7, 2019												
12/7/2019	1046 S. 23rd St., Nederland, TX	8:16 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	516 Orchard St., Port Neches, TX	8:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	2301 Avenue H, Nederland, TX	8:31 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	101 Orchard St., Port Neches, TX	8:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odors
12/7/2019	366 near Park St., Port Neches, TX	8:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Harvest Time Bible Church, 4430 Jimmy Johnson Blvd., Port Arthur, TX	8:45 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	278 N. 27th St., Nederland, TX	8:48 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	A Church of Jesus, 601 Victor Dr., Port Neches, TX	8:58 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	1676 8th St., Port Neches, TX	9:08 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Nederland City Hall, 207 N. 12th St., Nederland, TX	9:11 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	366/136, Port Neches, TX	9:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	426 E. 2nd St., Port Neches, TX	9:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	347 N. 10th St., Nederland, TX	9:30 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Meadowgreen Park, 3147 Lancaster Ln., Port Neches, TX	9:36 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	366/136, Port Neches, TX	9:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	224 E. 1st St., Port Neches, TX	9:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.7%				No odors
12/7/2019	3136 Park St., Nederland, TX	9:50 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Betty Ct./Earle St., Port Neches, TX	9:52 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Barbara Ct./Patricia Ln., Port Neches, TX	10:02 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	YMCA of Port Arthur, 3902 Lake Arthur Dr., Port Arthur, TX	10:10 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Effie & Wilton Hebert Public Library, 2025 Merriman St., Port Neches, TX	10:14 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	100-120 E. 1st St., Port Neches, TX	10:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Saturday, December 7, 2019												
12/7/2019	455-699 Pine St., Port Neches, TX	10:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	First United Methodist Church, 1826 Nall St., Port Neches, TX	10:25 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Arthur ISD Admin., 4829 9th St., Port Arthur, TX	10:30 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	14th St./Pine Ln., Port Neches, TX	10:36 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Nederland Water Tower, 591 S. 5th St., Nederland, TX	10:52 PM	MiniRAE/ UltraRAE	0%	0.05 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	Port Neches Alternative School, 1810 Port Neches Ave., Port Neches, TX	10:58 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	207 Pine St., Port Neches, TX	11:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	101 E. 1st St., Port Neches, TX	11:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/7/2019	3713 Central Blvd., Nederland, TX	11:08 PM	MiniRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	117 Oak St., Port Neches, TX	11:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	298-200 Port Neches Atlantic Rd., Port Neches, TX	11:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/7/2019	2161-2177 Merriman St., Port Neches, TX	11:55 PM	MultiRAE/ UltraRAE	0%	0.34	0 ppm	0 ppm	21.2%		0.22 ppm		Slight butadiene odor
Sunday, December 8, 2019												
12/8/2019	100 Port Neches Atlantic Rd., Port Neches, TX	12:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	606 Magnolia Ave., Port Neches, TX	12:10 AM	MultiRAE/ UltraRAE	0%	0.26 ppm	0 ppm	0 ppm	20.9%		0.13 ppm		No odors
12/8/2019	3707 Central Blvd., Nederland, TX	12:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Central Middle School, 200 N 17th St., Nederland, TX	12:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	1029 Port Neches Atlantic Rd., Port Neches, TX	12:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Betty Dr./Earle St., Port Neches, TX	12:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Doornbos Heritage Park, 230 Avenue H, Nederland, TX	12:50 AM	MultiRAE/ UltraRAE	0%	0.1 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	921 18th Ave., Port Arthur, TX	12:56 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/ Observations
Sunday, December 8, 2019												
12/8/2019	Hillcrest Baptist Church, 3324 Park Dr., Nederland, TX	1:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	2325 Patricia Ln., Port Neches, TX	1:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/8/2019	Nederland High School, 2108 N. 18th St., Nederland, TX	1:16 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	201 Orchard Ave., Port Neches, TX	1:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Encounter Church, Groves, TX	1:26 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	First Baptist Church of Beauart Gardens, 8230 Hames Rd., Nederland, TX	1:31 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	622 Segbrook Ln., Port Neches, TX	1:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/8/2019	136/347, Port Neches, TX	1:44 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	2030-2198 Merriman St., Port Neches, TX	1:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Helena Park Elementary School, 2800 Helena Ave., Nederland, TX	1:56 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	706 Magnolia, Port Neches, TX	2:01 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	2429 Goodwin Ct., Port Neches, TX	2:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Langham Elementary School, 800 S. 12th St., Nederland, TX	2:08 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Port Neches-Groves High School, Port Neches, TX	2:13 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	Highland Park Elementary, 200 S. 6th St., Nederland, TX	2:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	366 near Park St., Port Neches, TX	2:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	United Christian Fellowship, 1600 Welch Ave., Port Neches, TX	2:34 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	1926-1998 Merriman St., Port Neches, TX	2:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odors
12/8/2019	Allstate, Port Neches, TX	2:36 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Sunday, December 8, 2019												
12/8/2019	Effie & Wilton Hebert Public Library, 2025 Merriman St., Port Neches, TX	2:49 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	ACE Glass & Mirror, Nederland, TX	2:50 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	366/136, Port Neches, TX	3:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Holy Trinity Episcopal Church, 2425 Nall St., Port Neches, TX	3:03 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Du Good Mortgage, Nederland, TX	3:08 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	411 Avenue K., Port Neches, TX	3:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odors
12/8/2019	The Church of Jesus Christ of Latter Day Saints, 3939 Turtle Creek Dr., Port Arthur, TX	3:17 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Near 698-126 Orchard Ave., Port Neches, TX	3:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Nederland Masonic Lodge, Nederland, TX	3:22 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	Grace Church of the Nazarene, 4601 Rice Farm Rd., Port Arthur, TX	3:30 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Fellowship Church, Nederland, TX	3:33 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	423 Avenue I, Port Neches, TX	3:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/8/2019	Port Arthur ISD Admin., 4829 9th St., Port Arthur, TX	3:47 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	Stone Creek Apartments, 3035 Lake Arthur Dr., Port Arthur, TX	3:53 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Luby's, Port Arthur, TX	4:03 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	Port Arthur ISD Admin., 4801 9th Ave., Port Arthur, TX	4:04 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	301 Grigsby Ave., Port Neches, TX	4:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	230 E. 2nd St., Port Neches, TX	4:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	AmSpec, Nederland, TX	4:15 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	18th St./Atlanta Ave., Port Arthur, TX	4:21 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Sunday, December 8, 2019												
12/8/2019	US 287/FM 3514, Beaumont, TX	4:24 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	W. Port Arthur Rd./FM-3514, Beaumont, TX	4:32 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
12/8/2019	302 E. 1st St., Port Neches, TX	4:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Doornbos Heritage Park, 230 Avenue H, Nederland, TX	4:54 AM	MultiRAE/ UltraRAE	0%	0.1 ppm	0 ppm	0 ppm	20.9%				No odors