

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	Other Notes/ Observations
Sunday, December 8, 2019											
12/8/2019	1542 Heisler St, Port Neches, TX	6:23 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	1773 Merriman St, Port Neches, TX	6:25 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	719 Merriman St, Port Neches, TX	6:37 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	Hess St & Merriman St, Port Neches, TX	6:44 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	1603 Merriman St, Port Neches, TX	6:46 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	2180-2190 Park St, Port Neches, TX	6:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	606 Magnolia Ave, Port Neches, TX	7:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2115 Merriman St, Port Neches, TX	7:01 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	700 Park St, Port Neches, TX	7:07 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2766 Merriman St, Port Neches, TX	7:15 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	2092-2098 Dearing St, Port Neches, TX	7:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	706 Magnolia Ave, Port Neches, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2096 Merriman St, Port Neches, TX	7:31 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	1654 Park St, Port Neches, TX	7:33 PM	QRAE/ UltraRAE	0%	0.35 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2233 15th St, Port Neches, TX	7:40 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	1400-1498 Main St, Port Neches, TX	7:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	1822 Port Neches Ave, Port Neches, TX	7:54 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	599 Woodcrest St, Port Neches, TX	7:55 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	1259-1299 Park St, Port Neches, TX	8:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	776 Magnolia Ave, Port Neches, TX	8:00 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	Other Notes/Observations
Sunday, December 8, 2019											
12/8/2019	1496 Park St, Port Neches, TX	8:20 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2100-2120 Main St, Port Neches, TX	8:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2000-2198 Llano St & Magnolia Ave, Port Neches, TX	8:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2474 Nederland Ave, Port Neches, TX	8:41 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	2080 Park St, Port Neches, TX	8:42 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	301 Grigsby Ave, Port Neches, TX	8:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No odors
12/8/2019	2117 Merriman St, Port Neches, TX	9:02 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	225 17th St, Nederland, TX	9:10 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	Port Neches Middle School, 749 Central Dr, Port Neches, TX	9:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	747 Central Dr, Port Neches, TX	9:21 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	1401 Merriman St, Port Neches, TX	9:25 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0.0 ppm	No odors
12/8/2019	891 Gulf Ave, Port Neches, TX	9:43 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2280 Jefferson Dr, Port Arthur, TX	9:44 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	2129 Main St, Port Neches, TX	10:00 PM	MultiRAE/ UltraRAE	0%	0.36 ppm	0 ppm	0 ppm	21.1%		0.24 ppm	Slight butadiene odor
12/8/2019	700 Central Dr, Port Neches, TX	10:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	5078 Garfield Ave, Groves, TX	10:02 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	1073 Port Neches Ave, Port Neches, TX	10:04 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	1814 Port Neches Ave, Port Neches, TX	10:25 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	2129 Main St, Port Neches, TX	10:40 PM	UltraRAE		0.5 ppm					0.30 ppm	Slight butadiene odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Sunday, December 8, 2019											
12/8/2019	Park St & Magnolia Ave, Port Neches, TX	10:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	240 E Port Neches, Port Neches, TX	10:40 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/8/2019	1400-1498 Main St, Port Neches, TX	10:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odors
12/8/2019	2212 Earle St, Port Neches, TX	10:58 PM	QRAE/ UltraRAE	0%	0.00 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	FM 366 & Spur 136, Port Neches, TX	11:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	927 Neches Dr, Port Neches, TX	11:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/8/2019	701-775 Avenue C, Port Neches, TX	11:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odors
Monday, December 9, 2019											
12/9/2019	Pine St & E 1st St, Port Neches, TX	12:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	908 Gulf Ave, Port Neches, TX	12:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	1522 Heisler St, Port Neches, TX	12:30 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	FM 366 & Pine St, Port Neches, TX	12:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	719 Merriman St, Port Neches, TX	12:50 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	542-584 Pine St, Port Neches, TX	12:55 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odors
12/9/2019	1401 Merriman St, Port Neches, TX	12:59 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	1401 Merriman St, Port Neches, TX	1:00 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	320 Pine St, Port Neches, TX	1:12 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	749 Central Drive, Port Neches, TX	1:15 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	200-214 Sycamore St, Port Neches, TX	1:22 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	1826 Nall St, Port Neches, TX	1:25 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Monday, December 9, 2019											
12/9/2019	2006 Nall St, Port Neches, TX	1:26 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	101 Ave. E Port Neches, Port Neches, TX	1:35 AM	MultiRAE/ UltraRAE	0%	0.2 ppm	0 ppm	0 ppm	21.2%		0.00 ppm	No odors
12/9/2019	1810 Port Neches Ave, Port Neches, TX	1:37 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	100-126 Walnut St, Port Neches, TX	1:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	1900 Magnolia Ave, Port Neches, TX	1:47 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	Ethridge Ct & Mildred Manor, Port Neches, TX	2:00 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	776 Magnolia Ave, Port Neches, TX	2:05 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	2820 Merriman St, Port Neches, TX	2:16 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	Spur 136 & Grigsby Ave, Port Neches, TX	2:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	101-113 Grisby Ave, Port Neches, TX	2:25 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	2001 Merriman St, Port Neches, TX	2:35 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	1522 Heisler, Port Neches, TX	2:36 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	1011 Grigsby Ave, Port Neches, TX	2:49 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	329 Avenue F, Port Neches, TX	3:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	100 Port Neches Atlantic Rd, Port Neches, TX	3:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	200 N 17th St, Nederland, TX	3:05 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	2611 Avenue H, Nederland, TX	3:35 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	Avenue L / Main St, Port Neches, TX	3:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			Slight unknown odor
12/9/2019	2701 TX-136 Spur, Port Neches, TX	3:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	200 N 17th St, Nederland, TX	3:42 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Monday, December 9, 2019											
12/9/2019	Avenue L / Main St, Port Neches, TX	4:00 AM	UltraRAE		0.1 ppm					0.00 ppm	Slight unknown odor
12/9/2019	200 South 6th St, Nederland, TX	4:00 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	800 S 12th St, Nederland, TX	4:00 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	FM 366 & Spur 136, Port Neches, TX	4:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	200 S 6th St, Nederland, TX	4:20 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	FM 366 / Park St, Port Neches, TX	4:22 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No odors
12/9/2019	1720 Magnolia Ave, Port Neches, TX	4:24 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	2025 Merriman St, Port Neches, TX	4:38 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/9/2019	Park Ave & Spur 136, Port Neches, TX	4:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/9/2019	903 Avenue B, Port Neches, TX	5:05 AM	QRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors