

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 15, 2019											
12/15/2019	1401 Merriman St., Port Neches, TX	9:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Park St./Ave. L, Port Neches, TX	9:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	332 Ave. F, Port Neches, TX	9:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2025 Merriman St., Port Neches, TX	9:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	334 Ave. C, Port Neches, TX	9:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2101 Main St., Port Neches, TX	9:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches-Groves High School, 1401 Merriman St., Port Neches, TX	9:50 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	422 Grigsby Ave., Port Neches, TX	10:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1600 Main St., Port Neches, TX	10:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches Park, Park St./Merriman St., Port Neches, TX	10:02 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1109 Port Neches Ave., Port Neches, TX	10:15 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	702 Merriman St., Port Neches, TX	10:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1008 Neches Dr., Port Neches, TX	10:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches Elementary 2101 Llano St., Port Neches, TX	10:30 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	10:38 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	730 Ave. B, Port Neches, TX	10:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	406 Grigsby Ave., Port Neches, TX	10:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Woodcrest Elementary, 1522 Heisler St., Port Neches, TX	11:00 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Sunday, December 15, 2019											
12/15/2019	728 Ave. D, Port Neches, TX	11:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	420 Avenue B, Port Neches, TX	11:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches Ave./1st St., Port Neches, TX	11:15 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1726 Green Oaks Dr., Port Neches, TX	11:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	426 Avenue C, Port Neches, TX	11:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Park St./Ave. L, Port Neches, TX	11:30 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1901 Stella Cir., Port Neches, TX	11:40 AM	MultiRAE/ UltraRAE	0%	0.02 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1824 Ethridge Ct., Port Neches, TX	11:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Ave. I/Dearing St., Port Neches, TX	11:45 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	Port Neches Park, Tugboat Island, 500-630 Grigsby Ave., Port Neches, TX	11:55 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1401 Merriman St., Port Neches, TX	12:00 PM	MultiRAE/ UltraRAE	0%	0.01 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	901 Montrose Dr., Port Neches, TX	12:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	301 Grigsby Ave., Port Neches, TX	12:20 PM	MultiRAE/ UltraRAE	0%	0.08 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	729 Main St., Port Neches, TX	12:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	100 Port Neches Atlantic Rd., Port Neches, TX	12:40 PM	MultiRAE/ UltraRAE	0%	0.07 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1025 McArthur Dr., Port Neches, TX	12:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	114 Maple St., Port Neches, TX	1:00 PM	MultiRAE/ UltraRAE	0%	0.08 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1406 Ave. B, Port Neches, TX	1:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Oak Bluff Memorial Park, 242-386 Block St., Port Neches, TX	1:15 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Sunday, December 15, 2019											
12/15/2019	119 Pecan St., Port Neches, TX	1:20 PM	MultiRAE/ UltraRAE	0%	0.05 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1213 Montrose Dr., Port Neches, TX	1:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Southside Baptist Church, 1990 Llano St., Port Neches, TX	1:30 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	Canal St./Grand Blvd., Port Neches, TX	1:40 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	109 E. Cypress St., Port Neches, TX	1:40 PM	MultiRAE/ UltraRAE	0%	0.03 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1615 Eighth St., Port Neches, TX	1:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches Elementary 2101 Llano St., Port Neches, TX	1:50 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	1:57 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	207 Sycamore St., Port Neches, TX	2:00 PM	MultiRAE/ UltraRAE	0%	0.01 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1921 Sixth St., Port Neches, TX	2:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches-Groves High School, 1401 Merriman St., Port Neches, TX	2:10 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	Woodcrest Elementary, 1522 Heisler St., Port Neches, TX	2:20 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	414 Avenue J, Port Neches, TX	2:20 PM	MultiRAE/ UltraRAE	0%	0.10 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	210 Armstrong Ave., Port Neches, TX	2:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	419 Avenue I, Port Neches, TX	2:40 PM	MultiRAE/ UltraRAE	0%	0.03 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	2098 Second St., Port Neches, TX	2:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	409 Ave. F, Port Neches, TX	3:00 PM	MultiRAE/ UltraRAE	0%	0.12 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1900 Magnolia Ave., Port Neches, TX	3:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Sunday, December 15, 2019											
12/15/2019	332 Ave. C, Port Neches, TX	3:20 PM	MultiRAE/ UltraRAE	0%	0.05 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1902 Gulf Ave., Port Neches, TX	3:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	401 Rachford Ave., Port Neches, TX	3:40 PM	MultiRAE/ UltraRAE	0%	0.13 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	2101 Ninth St., Port Neches, TX	3:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2033 Tenth St., Port Neches, TX	4:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	702 Merriman St., Port Neches, TX	4:15 PM	MultiRAE/ UltraRAE	0%	0.15 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1914 11th St., Port Neches, TX	4:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	724 Santee St., Port Neches, TX	4:35 PM	MultiRAE/ UltraRAE	0%	0.04 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	2105 13th St., Port Neches, TX	4:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1215 Lillie St., Port Neches, TX	4:55 PM	MultiRAE/ UltraRAE	0%	0.07 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1401 Merriman St., Port Neches, TX	5:00 PM	MultiRAE/ UltraRAE	0%	0.09 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	2018 14th St., Port Neches, TX	5:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1401 Merriman St., Port Neches, TX	5:20 PM	MultiRAE/ UltraRAE	0%	0.02 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1125 Eugene St., Port Neches, TX	5:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	1201 Merriman St., Port Neches, TX	5:40 PM	MultiRAE/ UltraRAE	0%	0.04 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1801 Dieu St., Port Neches, TX	5:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	431 Ave. B, Port Neches, TX	6:00 PM	MultiRAE/ UltraRAE	0%	0.11 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1305 Cypress St., Port Neches, TX	6:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	101 Walnut St., Port Neches, TX	6:20 PM	MultiRAE/ UltraRAE	0%	0.10 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1833 Live Oak St., Port Neches, TX	6:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	117 Oak St., Port Neches, TX	6:40 PM	MultiRAE/ UltraRAE	0%	0.08 ppm	0 ppm		20.9%	0 ppm		No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Sunday, December 15, 2019											
12/15/2019	1711 10th St., Port Neches, TX	6:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	125 Sycamore St., Port Neches, TX	7:00 PM	MultiRAE/ UltraRAE	0%	0.11 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1517 Block St., Port Neches, TX	7:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	125 Pine St., Port Neches, TX	7:20 PM	MultiRAE/ UltraRAE	0%	0.09 ppm	0 ppm		20.9%	0 ppm		No odor
12/15/2019	1301 Katie St., Port Neches, TX	7:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2101-2105 SH-136 Spur, Port Neches, TX	8:25 PM	MultiRAE/ UltraRAE		0.46 ppm	0 ppm	0 ppm	20.9%		0.3 ppm	Slight Butadiene odor.
12/15/2019	854 Magnolia Ave., Port Neches, TX	9:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2195-2199 Park St., Port Neches, TX	9:15 PM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Port Neches Elementary School, 2101 Llano St., Port Neches, TX	9:35 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Main St./Ave. L, Port Neches, TX	10:05 PM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/15/2019	Knights of Columbus, 700 Central Dr., Port Neches, TX	10:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	2025 Merriman St., Port Neches, TX	10:55 PM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/15/2019	Port Neches Little League, 2000 Merriman St., Port Neches, TX	11:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/15/2019	Park St./New St., Port Neches, TX	11:45 PM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
Monday, December 16, 2019											
12/16/2019	Port Neches-Groves High School, 1401 Merriman St., Port Neches, TX	12:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	Orchard St./FM-366, Port Neches, TX	12:35 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/16/2019	706 Magnolia Ave., Port Neches, TX	12:50 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Monday, December 16, 2019											
12/16/2019	101 Orchard St., Port Neches, TX	1:25 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	Port Neches Fire Dept., 606 Magnolia Ave., Port Neches, TX	1:50 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	216-298 Sycamore St., Port Neches, TX	2:15 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	Hwy. 366 South of Spur 136, Port Neches, TX	2:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	115 Maple St., Port Neches, TX	3:10 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/16/2019	Park St./Ave. L, Port Neches, TX	3:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	136 West of 366, Port Neches, TX	4:10 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	Hwy. 366/Pine St., Port Neches, TX	4:50 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	2101-2105 SH-136 Spur, Port Neches, TX	5:00 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/16/2019	2701 TX-136, Port Neches, TX	5:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	FM-366/Main St., Port Neches, TX	5:50 AM	MultiRAE/ UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odor
12/16/2019	366/Park St., Port Neches, TX	6:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/16/2019	Main St./Ave. L, Port Neches, TX	6:40 AM	MultiRAE/ UltraRAE		0.10 ppm	0 ppm	0 ppm	20.9%			No odor