

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
Friday, December 13, 2019											
12/13/2019	Orchard Ave and Hwy 366, Port Neches, TX	2:20 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Spur 136 and Hwy 366, Port Neches, TX	3:20 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Hwy 366 North of Spur 136, Port Neches, TX	4:15 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Hwy 366 South of Park St, Port Neches, TX	5:00 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Ave L and Park St, Port Neches, TX	5:50 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Hwy 366/Magnolia Ave and Park St, Port Neches, TX	6:40 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	749 Central Dr, Port Neches, TX	9:00 AM	MultiRAE/UltraRAE	0%	0.25 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	2213 Earle Street, Port Neches, TX	9:15 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1890 Llano St, Port Neches, TX	9:20 AM	MultiRAE/UltraRAE	0%	0.20 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	PNG Highschool, 668 Ave D, Port Neches, TX	9:30 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
Friday, December 13, 2019											
12/13/2019	360 Meadowgreen Drive, Port Neches, TX	9:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	720 Lee Ave, Port Neches, TX	9:40 AM	MultiRAE/UltraRAE	0%	0.15 ppm	0 ppm	0 ppm	20.1%			No odors
12/13/2019	PNG Middle School, 2094 Merriman Street, Port Neches, TX	9:42 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	Woodcrest Elementary School, 599 Woodcrest, Port Neches, TX	9:55 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	Intersection of Merriman Street and Park Street	10:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	143 Walnut Street, Port Neches, TX	10:11 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	3181 Saba Lane, Port Neches, TX	10:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.6%			No odors
12/13/2019	2107 Main Street, Port Neches, TX	10:28 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		Very Light, sweet aromatic, intermittent (maybe styrene)

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	Meadowgreen Park, Meadowgreen Drive, Port Neches, TX	10:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	408 Ave K, Port Neches, TX	10:46 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	410 Ave G, Port Neches, TX	10:55 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	3153 Canterbury Lane, Port Neches, TX	11:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1310 Nall St, Port Neches, TX	11:15 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	19.3%			No odors
12/13/2019	2102 Spur 136, Port Neches, TX	11:20 AM	MultiRAE/ UltraRAE	0%	0.05 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	1401 Merriman St, Port Neches, TX	11:35 AM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	2178 Spur 136, Port Neches, TX	11:40 AM	MultiRAE/ UltraRAE	0%	0.01 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	414 Ave J, Port Neches, TX	11:55 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	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	Intersection of Park Street and Ave L, Port Neches, TX	12:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	1615 Main St, Port Neches, TX	12:15 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	854 Magnolia Ave, Port Neches, TX	12:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	Central Baptist Church, 1119 Dallas Street, Port Neches, TX	12:25 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	101 Walnut St, Port Neches, TX	12:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	TX-136 Spur and Grisby Ave, Port Neches, TX	12:35 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	VFW, 1052 Port Neches Ave, Port Neches, TX	12:36 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	152 Grigsby Ave, Port Neches, TX	12:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	982 Marion Street, Port Neches, TX	12:44 PM	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
Friday, December 13, 2019											
12/13/2019	100 Port Neches Atlantic Rd, Port Neches, TX	12:55 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1004 Merriman Street, Port Neches, TX	1:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	700 Park Street, Port Neches, TX	1:08 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	1005 Merriman St, Port Neches, TX	1:15 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Port Neches Park, 601 Grigsby Ave, Port Neches, TX	1:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	944 Neches Drive, Port Neches, TX	1:30 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	720 Lee Ave, Port Neches, TX	1:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.7%			No odors
12/13/2019	103 Grigsby Ave, Port Neches, TX	1:40 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		Light Intermittant Butadiene Odors
12/13/2019	Port Neches Park on Park St, Port Neches, TX	1:50 PM	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	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	731 Llano Street, Port Neches, TX	2:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	246 Sycamore Street, Port Neches, TX	2:05 PM	MultiRAE	0%	0 ppm	0 ppm		20.90%	0 ppm		Light Styrene Odors
12/13/2019	331 Ave C, Port Neches, TX	2:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	701 Montgomery Street, Port Neches, TX	2:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	709 Royal Ave, Port Neches, TX	2:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	830 Montgomery Street, Port Neches, TX	2:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1613 Nall St, Port Neches, TX	2:50 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1002 Marion Street, Port Neches, TX	3:00 PM	MultiRAE/ UltraRAE	0%	0.02 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	903 Ave B, Port Neches, TX	3:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	730 Ave B, Port Neches, TX	3:20 PM	MultiRAE/ UltraRAE	0%	0.01 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
Friday, December 13, 2019											
12/13/2019	817 Dallas St, Port Neches, TX	3:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1125 Llano Street, Port Neches, TX	3:40 PM	MultiRAE/ UltraRAE	0%	0.01 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	606 Magnolia Ave, Port Neches, TX	3:50 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.0%			No odors
12/13/2019	726 Magnolia Ave, Port Neches, TX	4:00 PM	MultiRAE/ UltraRAE	0%	0.03 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	430 Ave J, Port Neches, TX	4:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	2126 Nall Street, Port Neches, TX	4:20 PM	MultiRAE/ UltraRAE	0%	0.02 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	101 Walnut St, Port Neches, TX	4:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Intersection of Merriman Street and Park Street, Port Neches, TX	4:40 PM	MultiRAE/ UltraRAE	0%	0.03 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	106 Maple St, Port Neches, TX	4:50 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.0%			No odors
12/13/2019	Intersection of Main Street and Ave D, Port Neches, TX	5:00 PM	MultiRAE/ UltraRAE	0%	0.03 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	1401 Merriman St, Port Neches, TX	5:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1600 Main Street, Port Neches, TX	5:20 PM	MultiRAE/ UltraRAE	0%	0.04 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1004 Merriman St, Port Neches, TX	5:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Intersection of Ave L and Main Street, Port Neches, TX	5:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	301 Grigsby Ave, Port Neches, TX	5:50 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Intersection of Dearing Street and Ave K, Port Neches, TX	6:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	402 Port Neches Atlantic Rd, Port Neches, TX	6:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1401 Merriman, Port Neches, TX	6:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1600 Main St, Port Neches, TX	6:30 PM	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	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	1407 Merriman, Port Neches, TX	6:40 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1401 Merriman St, Port Neches, TX	6:50 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1901 Llano St, Port Neches, TX	7:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1201 Merriman St, Port Neches, TX	7:10 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	1942 Stella Circle, Port Neches, TX	7:20 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	805 Ave B, Port Neches, TX	7:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Central Park on Merriman St and Park St, Port Neches, TX	8:40 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	2195-2199 Park St, Port Neches, TX	9:15 PM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.1%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Friday, December 13, 2019											
12/13/2019	Port Neches Groves ISD Baseball Field, 1401 Merriman St, Port Neches, TX	9:20 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	2102-2105 SH-136 Spur, Port Neches, TX	9:50 PM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.1%			No odors
12/13/2019	Park St and Ave I, Port Neches, TX	10:00 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	SH-136 and Grigsby Ave, Port Neches, TX	10:25 PM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	Orchard Ave and Hwy 366, Port Neches, TX	10:30 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	455-699 Pine St, Port Neches, TX	11:00 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	FM-366 and Orchard St, Port Neches, TX	11:05 PM	MultiRAE/UltraRAE		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
Friday, December 13, 2019											
12/13/2019	Behind PNG Highschool Football Stadium, 1339 Park Street, Port Neches, TX	11:05 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	Port Neches Park, 967 Merriman, Port Neches, TX	11:15 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odors
12/13/2019	115 Maple St, Port Neches, TX	11:40 PM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odors
12/13/2019	100 Port Neches Atlantic Rd, Port Neches, TX	11:40 PM	MultiRAE/UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
Saturday, December 14, 2019											
12/14/2019	415 Canal St, Port Neches, TX	12:15 AM	MultiRAE/UltraRAE		0.06 ppm	0 ppm	0 ppm	21.2%		0.05 ppm	Very slight Butadiene odor
12/14/2019	320 Pine St, Port Neches, TX	12:47 AM	MultiRAE/UltraRAE		0.36 ppm	0 ppm	0 ppm	21.2%		0.24 ppm	Slight Butadiene odor
12/14/2019	Pine St and FM-366, Port Neches, TX	1:25 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odors
12/14/2019	SH-136 and FM-366, Port Neches, TX	2:05 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
Saturday, December 14, 2019											
12/14/2019	2101-2121 Main St, Port Neches, TX	2:40 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odors
12/14/2019	297-299 Grigsby Ave, Port Neches, TX	3:15 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.2%			No odors
12/14/2019	101 Orchard St, Port Neches, TX	3:50 AM	MultiRAE/UltraRAE		0.14 ppm	0 ppm	0 ppm	20.9%		0.08 ppm	Slight Butadiene odor
12/14/2019	FM-366 and Orchard St, Port Neches, TX	4:25 AM	MultiRAE/UltraRAE		0.04 ppm	0 ppm	0 ppm	20.9%		0.02 ppm	No odors
12/14/2019	2194-2198 Park St, Port Neches, TX	5:10 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odors
12/14/2019	1949 Llano St, Port Neches, TX	5:45 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	20.9%			No odors
12/14/2019	1101 Block St, Port Neches TX	6:20 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.1%			No odors
12/14/2019	2043-2063 Merriman St, Port Neches, TX	7:00 AM	MultiRAE/UltraRAE		0 ppm	0 ppm	0 ppm	21.1%			No odors