

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 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, November 30, 2019												
11/30/2019	2205 Nederland Ave., Nederland, TX	6:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	2301 Ave. H, Nederland, TX	6:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Coral Ave./Hwy. 347 E, Nederland, TX	6:58 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			Slight butadiene odors
11/30/2019	2337 Nederland Ave., Port Neches, TX	7:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	W. Roundbunch Rd./Hwy. 73, Bridge City, TX	7:12 PM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	Magnolia Ave./Nederland Ave., Port Neches, TX	7:27 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	3610 FM 365, Nederland, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	572-594 Orchard St., Port Neches, TX	7:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Magnolia Ave./Hwy. 365, Port Neches, TX	7:43 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	Charlotte/W. Roundbunch, Bridge City, TX	7:43 PM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	3619 Nederland Ave., Nederland, TX	8:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Orchard St./FM-366, Port Neches, TX	8:02 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Grist Dr./Earle St., Port Neches, TX	8:04 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	8850 Jason Ln., Bridge City, TX	8:13 PM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	Ridgewood Elementary School, 2820 Merriam St., Port Neches, TX	8:19 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	Port Neches Atlantic Ave./Orchard Ave., Port Neches, TX	8:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	1400 US-69, Nederland, TX	8:27 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, November 30, 2019												
11/30/2019	E. Port Neches Ave./Grigsby Ave., Port Neches, TX	8:38 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	200-228 E. Second St., Port Neches, TX	8:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	301 Grigsby Ave., Port Neches, TX	8:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Young Dr. near Hubert Ave., Bridge City, TX	8:48 PM	MultiRAE/ MiniRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	230 E. Second St., Port Neches, TX	9:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	401 Rachford Ave., Port Neches, TX	9:06 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Llano St./Port Neches Ave., Port Neches, TX	9:15 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	1004 Merriman St., Port Neches, TX	9:17 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Approx. 3/4 mile north of Rainbow Bridge, Bridge City, TX	9:19 PM	MultiRAE/ MiniRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	426 E. Second St., Port Neches, TX	9:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	1208 Port Neches Ave., Port Neches, TX	9:27 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	302 E. First St., Port Neches, TX	9:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	FM-366 near 32nd St., Groves, TX	9:47 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	1401 Merriman St., Port Neches, TX	9:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	4925 McKinley Ave., Groves, TX	10:00 PM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	410 E. First St., Port Neches, TX	10:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Hogaboom/FM 366, Port Neches, TX	10:19 PM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	Brief (less than one minute) chemical odor. No odors after that.
11/30/2019	Hwy. 73/E. Roundbunch Rd., Bridge City, TX	10:20 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
11/30/2019	201-211 E. First St., Port Neches, TX	10:25 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, November 30, 2019												
11/30/2019	315 Ave. D, Port Neches, TX	10:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	2025 Merriman St, Port Neches, TX	10:42 PM	MultiRAE/ MiniRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	701-813 E. Port Neches Ave., Port Neches, TX	10:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	1201 Merriman St., Port Neches, TX	11:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	103 E. Cypress St., Port Neches, TX	11:02 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	Grigsby/Port Neches Dr., Port Neches, TX	11:05 PM	MultiRAE/ MiniRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odors
11/30/2019	500 Central Ave., Port Neches, TX	11:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	634 Ave. C, Port Neches, TX	11:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
11/30/2019	324 Pine St., Port Neches, TX	11:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
Sunday, December 1, 2019												
12/1/2019	314 Ave. C, Port Neches, TX	12:01 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	586-692 Pine St., Port Neches, TX	12:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	400 Ave. B, Port Neches, TX	12:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	Park St./Merriman St., Port Neches, TX	12:30 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	313 Canal St., Port Neches, TX	12:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	Taft Elementary, 2500 Taft Ave., Groves, TX	12:35 AM	MultiRAE/ MiniRAE	0%	0.1 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	2001 Merriman St., Port Neches, TX	12:41 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	End of Saybrook Ln., Port Neches, TX	12:55 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	Jimmy Johnson/Lake Arthur Dr., Port Arthur, TX	1:08 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	903 Ave. B, Port Neches, TX	1:10 AM	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
Sunday, December 1, 2019												
12/1/2019	Larry's Fresh Market, 3701 Pure Atlantic, Groves, TX	1:14 AM	MultiRAE/MiniRAE	0%	0.1 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	FM 365/Medical Center Dr., Port Arthur, TX	1:23 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	Port Neches Atlantic Ave./Walnut St., Port Neches, TX	1:25 AM	MultiRAE/MiniRAE	0%	0.1-0.2 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	913 Port Neches Ave., Port Neches, TX	1:32 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	Hwy. 73/Labelle Rd., Beaumont, TX	1:48 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	SH-136 Spur/FM-366, Groves, TX	1:50 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		Slight odor
12/1/2019	1/4 mile South of Spur 136/Hwy. 366, Port Neches, TX	1:58 AM	MultiRAE/MiniRAE	0%	0.2-1.5 ppm			20.9%	0 ppm		1 ppm	Burnt rubber smell, unpleasant, downwind of smoke from fires
12/1/2019	Kiker Field, Hamshire, TX	2:00 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	1220 Merriman St., Port Neches, TX	2:09 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	SH-136 Spur/FM-366, Groves, TX	2:12 AM	MultiRAE/ UltraRAE	0%	2.0 ppm	0 ppm	0 ppm	20.9%		0.52 ppm		Odor detected
12/1/2019	Hwy. 124/Hamshire Red., Hamshire, TX	2:17 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	Spur 136/Hwy. 366, Port Neches, TX	2:18 AM	MultiRAE/MiniRAE	0%	0.2-1.6 ppm			20.9%	0 ppm		1 ppm	Strong burnt rubber smell downwind of fires
12/1/2019	1324 Port Neches Ave., Port Neches, TX	2:29 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odors
12/1/2019	SH-136 Spur/south of FM-366, Groves, TX	2:30 AM	MultiRAE/ UltraRAE	0%	1.0 ppm	0 ppm	0 ppm	20.9%		0.4 ppm		Odor detected
12/1/2019	FM 365/Hwy. 124, Beaumont, TX	2:39 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	5255 Hwy. 347, Port Arthur, TX	2:41 AM	MultiRAE/MiniRAE	0%	0.1-0.2 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	1522 Hester St., Port Neches, TX	2:45 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odors
12/1/2019	Orchard St./FM-366, Port Neches, TX	3:00 AM	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
Sunday, December 1, 2019												
12/1/2019	Grace Church, Burrell-Wingate Rd., Fannett, TX	3:04 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	5201 Wilson St., Groves, TX	3:06 AM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	1006 Port Neches Ave., Port Neches, TX	3:17 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odors
12/1/2019	FM-366/Pine St., Port Neches, TX	3:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	Labelle Rd./Hwy. 365, Beaumont, TX	3:20 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	4729 Pure Atlantic, Groves, TX	3:26 AM	MultiRAE/ MiniRAE	0%	0.1 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	Labelle Baptist Church, Beaumont, TX	3:29 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	585-693 Pine St., Port Neches, TX	3:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/1/2019	1216 Port Neches Ave., Port Neches, TX	3:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	Garfield/Jefferson, Groves, TX	3:48 AM	MultiRAE/ MiniRAE	0%	0.2 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	Hwy. 69/Nederland Ave., Port Arthur, TX	3:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			Smell of fast food (McDonalds) from across the street
12/1/2019	Spurlock Road Vet Clinic, Nederland, TX	3:57 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	301 Grigsby Ave., Port Neches, TX	4:05 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odors
12/1/2019	Ridgewood Ln. near Highland Blvd., Nederland, TX	4:06 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	3900 Cleveland St., Groves, TX	4:08 AM	MultiRAE/ MiniRAE	0%	0.1 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	17th/Boston Ave., Nederland, TX	4:17 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	N. 7th St./Nederland Ave., Nederland, TX	4:27 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	1004 Merriman St., Port Neches, TX	4:30 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odors
12/1/2019	Craig Ave./Hogaboom Rd., Groves, TX	4:36 AM	MultiRAE/ MiniRAE	0%	0.1 ppm			20.9%	0 ppm		0 ppm	No odors
12/1/2019	Market Basket, Magnolia Ave., Port Neches, TX	4:37 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/ Observations
Sunday, December 1, 2019												
12/1/2019	Joe's Italian Kitchen, 2839 Nall St, Port Neches, TX	4:45 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	3504 E Farm to Market Rd 365, Nederland, TX	4:54 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm			No odors
12/1/2019	101-121 Port Neches Ave., Port Neches, TX	5:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/1/2019	634 Ave. C, Port Neches, TX	5:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/1/2019	128 Oak St., Port Neches, TX	5:22 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odors
12/1/2019	1100-1198 E. Port Neches Ave., Port Neches, TX	5:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors