

# **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 (H<sub>2</sub>S), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), 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/<br>Observations                |
|-----------------------------------|--|----------------|-----------------------|-----|-----------|-------|-------|-------|-------|-----------|---------|---|
| <b>Thursday, December 5, 2019</b> |  |                |                       |     |           |       |       |       |       |           |         |   |
| 12/5/2019                         | 726 Cherokee Ave, Port Neches, TX                          | 6:22 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm   | No odors                                    |
| 12/5/2019                         | 13958 S Mansfield Ferry Rd, Orange, TX                     | 6:30 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 21.2% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 2105 Merriman St, Port Neches, TX                          | 6:35 PM        | UltraRAE/<br>MultiRAE | 0%  | 0.075 ppm |       |       | 20.9% | 0 ppm |           | 0.5 ppm | Very light burning sweet, intermittent      |
| 12/5/2019                         | Old Mansfield Ferry Rd, Orange, TX                         | 6:45 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 21.3% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 1700 Park St, Port Neches, TX                              | 6:52 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm   | No odors                                    |
| 12/5/2019                         | 17886 Nall St, Port Neches, TX                             | 7:04 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0.5 ppm | Very light burning sweet, intermittent      |
| 12/5/2019                         | 1088 Sun Ave, Port Neches, TX                              | 7:18 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm   | No odors                                    |
| 12/5/2019                         | Hwy 136 & FM 366, Port Neches, TX                          | 7:20 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 21.3% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 969 Marion St, Port Neches, TX                             | 7:32 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm   | No odors                                    |
| 12/5/2019                         | 606 Magnolia Ave, Port Neches, TX                          | 7:45 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 21.2% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 2001 Merriman St, Port Neches, TX                          | 7:56 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0.2 ppm   | 0 ppm |       | 21.2% | 0 ppm | 0 ppm     | 0 ppm   | Odors detected                              |
| 12/5/2019                         | Hwy 136 & FM 366, Port Neches, TX                          | 8:00 PM        | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |         | No odors                                    |
| 12/5/2019                         | 807 Hebert Dr, Port Neches, TX                             | 8:10 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0.5 ppm | Very light burning sweet, intermittent      |
| 12/5/2019                         | Port Neches High School, 1401 Merriman St, Port Neches, TX | 8:19 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 20.9% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 516 Orchard Ave, Port Neches, TX                           | 8:25 PM        | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |         | No odors                                    |
| 12/5/2019                         | 1999 Dearing St, Port Neches, TX                           | 8:28 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 20.9% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 866 Park St, Port Neches, TX                               | 8:34 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm   | Very light burning metal odor, intermittent |
| 12/5/2019                         | 430 Avenue G, Port Neches, TX                              | 8:37 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm     | 0 ppm |       | 20.9% | 0 ppm | 0 ppm     | 0 ppm   | No odors                                    |
| 12/5/2019                         | 695-699 Pine St, Port Neches, TX                           | 8:50 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/<br>Observations |
|-----------------------------------|--|----------------|-----------------------|-----|-------|-------|-------|-------|-------|-----------|-------|------------------------------|
| <b>Thursday, December 5, 2019</b> |  |                |                       |     |       |       |       |       |       |           |       |                              |
| 12/5/2019                         | 934 Avenue B, Port Neches, TX                  | 8:55 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 1990 Llano St, Port Neches, TX                 | 9:03 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm | 0 ppm |       | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/5/2019                         | 1524 Dieu St, Port Neches, TX                  | 9:09 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 706 Magnolia Ave, Port Neches, TX              | 9:15 PM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 21.1% |       |           |       | No odors                     |
| 12/5/2019                         | 1004 Merriman St, Port Neches, TX              | 9:17 PM        | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm | 0 ppm |       | 20.9% | 0 ppm | 0 ppm     | 0 ppm | Odors detected               |
| 12/5/2019                         | 864 Magnolia Ave, Port Neches, TX              | 9:23 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 2025 Merriman St, Port Neches, TX              | 9:35 PM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors                     |
| 12/5/2019                         | 2060 9th St, Port Neches, TX                   | 9:39 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 973 West Dr, Port Neches, TX                   | 9:55 PM        | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 301 Grisby Ave, Port Neches, TX                | 10:00 PM       | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors                     |
| 12/5/2019                         | S Main St & FM 105, Vidor, TX                  | 10:14 PM       | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm | 0 ppm |       | 21.3% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/5/2019                         | 317 Grigsby Ave, Port Neches, TX               | 10:14 PM       | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 101-121 E Port Neches, Port Neches, TX         | 10:20 PM       | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 21.0% |       |           |       | No odors                     |
| 12/5/2019                         | S Main St/Orangefield Rd & Hwy 1135, Vidor, TX | 10:25 PM       | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm | 0 ppm |       | 21.3% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/5/2019                         | 1654 Peering St, Port Neches, TX               | 10:30 PM       | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 220 Hwy 1135, Orange, TX                       | 10:41 PM       | MiniRAE/<br>MultiRAE  | 0%  | 0 ppm | 0 ppm |       | 21.2% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/5/2019                         | 402 E Port Neches, Port Neches, TX             | 10:45 PM       | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors                     |
| 12/5/2019                         | 2109 Merriman St, Port Neches, TX              | 10:58 PM       | UltraRAE/<br>MultiRAE | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/5/2019                         | 149 E Cypress St, Port Neches, TX              | 11:05 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/<br>Observations                          |
|--------------------------|--|----------------|-----------------------|-----|-----------|-------|-------|-------|-------|-----------|-------|---|
| Friday, December 6, 2019 |  |                |                       |     |           |       |       |       |       |           |       |   |
| 12/6/2019                | 268-200 E 1st St, Port Neches, TX          | 12:01 AM       | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors  |
| 12/6/2019                | 17028 TX-62, Orange, TX                    | 12:23 AM       | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | Central Park, Merriman St, Port Neches, TX | 12:23 AM       | MultiRAE/<br>UltraRAE | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors  |
| 12/6/2019                | 198-100 Maple St, Port Neches, TX          | 12:25 AM       | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors  |
| 12/6/2019                | 9692 FM 105, Orangefield, TX               | 12:37 AM       | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 10058 Orangefield Rd, Orange, TX           | 12:46 AM       | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 1100-1198 Dearing St, Port Neches, TX      | 12:50 AM       | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 21.0% |       |           |       | No odors  |
| 12/6/2019                | New St & Park St, Port Neches, TX          | 12:52 AM       | MultiRAE/<br>UltraRAE | 0%  | 0.350 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | Very light initial odors, quickly dropped to no odors |
| 12/6/2019                | 4223 4th Ave, Orange, TX                   | 1:12 AM        | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 1600 Main St, Port Neches, TX              | 1:14 AM        | MultiRAE/<br>UltraRAE | 0%  | 0.075 ppm | 0 ppm | 0 ppm | 20.6% | 0 ppm | 0 ppm     | 0 ppm | No odors  |
| 12/6/2019                | 1401 Merriman St, Port Neches, TX          | 1:15 AM        | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.8% |       |           |       | No odors  |
| 12/6/2019                | Duncan Woods Ln & Havens Rd, Vidor, TX     | 1:33 AM        | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 900 Block of Neches Dr, Port Neches, TX    | 1:36 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.7% | 0 ppm | 0 ppm     | 0 ppm | No odors  |
| 12/6/2019                | 499-401 Avenue K, Port Neches, TX          | 1:40 AM        | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors  |
| 12/6/2019                | Hearthside Dr & Firelight Dr, Orange, TX   | 1:49 AM        | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 401 Avenue F, Port Neches, TX              | 2:05 AM        | MultiRAE              | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors  |
| 12/6/2019                | 1325 SH-73 W., Bridge City, TX             | 2:05 AM        | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | Hwy 136 & FM 366, Port Neches, TX          | 2:14 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm     | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors  |
| 12/6/2019                | 2690 SH-73 E, Bridge City, TX              | 2:15 AM        | MultiRAE              | 0%  | 0 ppm     |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors  |
| 12/6/2019                | 2005 Texas Ave, Bridge City, TX            | 2:24 AM        | MultiRAE              | 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/<br>Observations |
|---------------------------------|---|----------------|-----------------------|-----|-------|-------|-------|-------|-------|-----------|-------|------------------------------|
| <b>Friday, December 6, 2019</b> |   |                |                       |     |       |       |       |       |       |           |       |                              |
| 12/6/2019                       | 606 Magnolia Ave, Port Neches, TX                                   | 2:30 AM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors                     |
| 12/6/2019                       | 100 Port Neches Atlantic Rd, Port Neches, TX                        | 2:40 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/6/2019                       | 903 Avenue B, Port Neches, TX                                       | 2:55 AM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 21.2% |       |           |       | No odors                     |
| 12/6/2019                       | 3324 Pure Atlantic Rd, Groves, TX                                   | 2:55 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 310 Twin City Hwy, Port Neches, TX                                  | 3:16 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 429 Avenue C, Port Neches, TX                                       | 3:20 AM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 21.2% |       |           |       | No odors                     |
| 12/6/2019                       | 400 Block of Gist Dr, Port Neches, TX                               | 3:20 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/6/2019                       | Mockingbird Ln & Alabama Ave, Jefferson County, TX                  | 3:29 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 2813 Earle St, Port Neches, TX                                      | 3:41 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/6/2019                       | 999-801 Neches Dr, Port Neches, TX                                  | 3:45 AM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 21.0% |       |           |       | No odors                     |
| 12/6/2019                       | 2825 Nall St, Port Neches, TX                                       | 3:45 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 601 Grigsby Ave, Port Neches, TX                                    | 4:00 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 606 Magnolia Ave, Port Neches, TX                                   | 4:04 AM        | UltraRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/6/2019                       | 632-698 Grisby Ave, Port Neches, TX                                 | 4:10 AM        | MultiRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% |       |           |       | No odors                     |
| 12/6/2019                       | Grigsby Ave & Hwy 136 W, Port Neches, TX                            | 4:10 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | Port Neches Middle School, 749 Central Dr, Port Neches, TX          | 4:24 AM        | UltraRAE              | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |
| 12/6/2019                       | 706 Magnolia Ave, Port Neches, TX                                   | 4:25 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | 1400 Merriman St, Port Neches, TX                                   | 4:35 AM        | MultiRAE              | 0%  | 0 ppm |       |       | 20.9% | 0 ppm |           | 0 ppm | No odors                     |
| 12/6/2019                       | Port Neches Riverfront Park, Hess St & Merriman St, Port Neches, TX | 4:46 AM        | MultiRAE/<br>UltraRAE | 0%  | 0 ppm | 0 ppm | 0 ppm | 20.9% | 0 ppm | 0 ppm     | 0 ppm | No odors                     |