

# **TCEQ Handheld Monitoring Equipment Data**

## **ITC Fire – March 2019**

Shortly after receiving notification of the Deer Park fire at Intercontinental Terminals Company that began on March 17, 2019, TCEQ Regional staff initiated handheld monitoring surveys in the area. MultiRaes with various sensors were used for all survey activities. This instrument provides 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>), radiation (Gamma), chlorine (CL<sub>2</sub>), ammonia (NH<sub>3</sub>), and oxygen levels (O<sub>2</sub>). UltraRAEs were used to monitor for benzene and Toxic Vapor Analyzers (TVA) were also used, when appropriate. This instrument measures most organic and inorganic gases.

Sample results from TCEQ's handheld monitoring equipment are listed below, including observations of odor and potential alternate sources for odor or instrument readings. Please note that all TVA results reported are recorded in parts per million (ppm) and negative readings are acceptable when they are within the acceptable range of error. Some normal levels, also known as background levels, of VOCs were noted to be between 2.3 ppm and 2.4 ppm. Data is updated as information becomes available.

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Monday, June 3, 2019</b>														
6/3/2019	1805 Clinton Dr, Galena Park, TX	7:40 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1000 Keene St, Galena Park, TX	8:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1900 N Main St, Galena Park, TX	8:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1022 Mercury Dr, Houston, TX	8:40 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	10718 Munn St, Jacinto City, TX	9:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	908 Woolfest, Galena Park, TX	9:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	12455 Industrial Rd, Houston, TX	9:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	12501 Market St, Houston, TX	10:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	11811 East Fwy, Houston, TX	10:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	353 Mercury Dr, Houston, TX	10:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	5300 S Lake Houston Pkwy, Houston, TX	11:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	550 Maxey Rd, Houston, TX	11:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	930 Normandy St, Houston, TX	11:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	12620 Woodforest Blvd, Houston, TX	12:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	14120 Wallisville Rd, Houston, TX	12:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	6500 Purple Sage Rd, Houston, TX	12:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	5609 Uvalde Rd, Houston, TX	1:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Monday, June 3, 2019</b>														
6/3/2019	13501 Hollypark Dr, Houston, TX	1:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	816 Cimarron St, Houston, TX	1:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1040 Freeport St, Houston, TX	2:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	4101 E Sam Houston Pkwy N, Houston, TX	2:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	14807 S Silver Green, Houston, TX	2:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	6500 E Sam Houston Pkwy N, Houston, TX	3:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	6301 Pale Sage Dr, Houston, TX	3:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	16550 Wallisville Rd, Houston, TX	3:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	911 Sheldon Rd, Channelview, TX	4:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	15255 Ferness Ln, Channelview, TX	4:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	15338 S Brentwood St, Channelview, TX	4:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	525 Overbluff St, Channelview, TX	5:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	14135 East Fwy, Houston, TX	5:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1217 Federal Rd, Houston, TX	5:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	15822 East Fwy, Channelview, TX	7:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	424 Kilgore Ave, Baytown, TX	8:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Monday, June 3, 2019</b>														
6/3/2019	7707 Bayway Dr, Baytown, TX	8:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	210 W Shreck St, Baytown, TX	9:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1876 I-10, Baytown, TX	9:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	7914 Thompson Rd, Highlands, TX	10:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1300 N Battlebell Rd, Highlands, TX	10:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1008 E Wallisville Rd, Highlands, TX	11:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	9020 Thompson Rd, Highlands, TX	11:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	925 E Canal Rd, Highlands, TX	12:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	210 Timber Ln, Highlands, TX	12:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	10700 Crosby Lynchburg Rd, Crosby, TX	1:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	11615 Crosby Lynchburg Rd, Crosby, TX	1:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	742 Ridge Dr, Crosby, TX	2:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	18582 Van Rd, Houston, TX	2:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	9002 Sheldon Rd, Houston, TX	3:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1903 Sheldon Rd, Channelview, TX	3:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	1141 Sheldon Rd, Channelview, TX	4:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	828 Sheldon Rd, Channelview, TX	4:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Monday, June 3, 2019</b>														
6/3/2019	1019 Woodland St, Channelview, TX	5:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	16150 2nd St, Channelview, TX	5:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/3/2019	16204 Market St, Channelview, TX	6:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
<b>Tuesday, June 4, 2019</b>														
6/4/2019	1908 2nd St, Galena Park, TX	7:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1107 5th St, Galena Park, TX	7:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1302 Keene St, Galena Park, TX	8:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1301 Mercury Dr, Houston, TX	8:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	921 Akron St, Houston, TX	8:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1813 Holland Ave, Houston, TX	9:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1300 Smith Park, Houston, TX	9:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	435 Sheldon Rd, Channelview, TX	10:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	828 Sheldon Rd, Channelview, TX	10:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	16777 Wallisville Rd, Houston, TX	10:40 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1701 Hidden Park Dr, Channelview, TX	11:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1290 Dell Dale St, Channelview, TX	11:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	15000 Woodforest Blvd, Channelview, TX	11:40 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Tuesday, June 4, 2019</b>														
6/4/2019	5420 E Sam Houston Pkwy N, Houston, TX	12:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	6909 Liberty Creek Tr, Houston, TX	12:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	5655 E Sam Houston Pkwy N, Houston, TX	12:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	120 Castlegory Rd, Houston, TX	1:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	14310 Duncannon Dr, Houston, TX	1:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1400 Force St, Houston, TX	1:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	14659 East Fwy, Houston, TX	2:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1202 Uvalde Rd, Houston, TX	2:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	13350 Woodforest Blvd, Houston, TX	2:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	5915 Uvalde Rd, Houston, TX	3:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	6003 Woodbend Dr, Houston, TX	3:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	101 Normandy St, Houston, TX	3:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	602 Beresford St, Houston, TX	4:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	12500 Normandy Crossing, Houston, TX	4:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	601 Maxey Rd, Houston, TX	4:50 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	548 Westshire Dr, Houston, TX	5:10 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	10901 Market St, Houston, TX	5:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Tuesday, June 4, 2019</b>														
6/4/2019	1462 Maryknoll Dr, Houston, TX	5:50 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	298 Yaupon Dr, Baytown, TX	7:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	7916 Bayway Dr, Baytown, TX	8:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	7914 Thompson Rd, Highlands, TX	8:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1401 Jones Rd, Highlands, TX	9:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1008 E Wallisville Rd, Highlands, TX	9:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	9020 Thompson Rd, Highlands, TX	10:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	200 E Wallisville Rd, Highlands, TX	10:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	611 Stratford St, Highlands, TX	11:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	906 N Main St, Highlands, TX	11:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	100 Lochness Dr, Highlands, TX	12:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	10700 Crosby Lynchburg Rd, Crosby, TX	12:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	12117 Crosby Lynchburg Rd, Crosby, TX	1:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	9200 Sheldon Rd, Houston, TX	1:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	16777 Wallisville Rd, Houston, TX	2:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	1100 Sheldon Rd, Channelview, TX	2:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	777 Sheldon Rd, Channelview, TX	3:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	NH3	CO	Gamma	O2	SO2	CL2	Other Notes/ Observations
<b>Tuesday, June 4, 2019</b>														
6/4/2019	15907 Avenue C, Channelview, TX	3:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	406 Sheldon Rd, Channelview, TX	4:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	16211 De Zavalla Rd, Channelview, TX	4:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	16144 Market St, Channelview, TX	5:00 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor
6/4/2019	15934 East Fwy, Channelview, TX	5:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm		0 ppm		20.9%			No odor