

TCEQ Handheld Monitoring Equipment Data

Kirby Inland Marine Barge Collision - Houston Ship Channel

May 2019

Shortly after receiving notification of the barge collision in the Houston Ship Channel on May 10, 2019, TCEQ Regional staff activated the TCEQ contractor, SWS, to conduct 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 benzene, lower explosive limit (LEL), volatile organic compounds (VOC), hydrogen sulfide (H₂S), carbon monoxide (CO), and oxygen levels (O₂).

Sample results from TCEQ's handheld monitoring equipment are listed below, including observations of odor. Data is updated as information becomes available.

Date	Location	Time (Approx.)	Instrument	Benzene	LEL	VOC	H2S	CO	O2	Other Notes/ Observations
Saturday, May 11, 2019										
5/11/2019	410 2nd St., La Porte, TX	7:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	611 10th St., Kemah, TX	7:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Paint thinner smell
5/11/2019	107 N. 8th St., La Porte, TX	7:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3rd St./ Texas Ave., Kemah, TX	7:35 AM	MultiRAE Benzene	0 ppm	0%	0.4 ppm	0 ppm	0 ppm	20.9%	Paint thinner smell
5/11/2019	102 E. Main St., La Porte, TX	7:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	311 Miller Ave., Kemah, TX	7:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Paint thinner smell
5/11/2019	3499 - 399 Vinsonia St., La Porte, TX	8:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	330 Marina Bay Dr., Kemah, TX	8:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	801 - 899 S. Lobit Ave., La Porte, TX	8:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	801 Bay Ave., Kemah, TX	8:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	814 E. C St., La Porte, TX	8:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	101 Raider Rd., Kemah, TX	8:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	707 Bayshore Dr., La Porte, TX	9:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	1427 Bayshore Dr., Kemah, TX	9:15 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	CO	O2	Other Notes/ Observations
Saturday, May 11, 2019										
5/11/2019	208 S. Utah St., La Porte, TX	9:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor. Pulled over to get out of the rain, slick roads, stopped sampling in order from getting the meter wet (25 min.)
5/11/2019	333 Meadow Ln., Kemah, TX	9:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2109 Park Ave., Kemah, TX	9:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	719 S. 8th St., La Porte, TX	10:10 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	104 Park Cir., Kemah, TX	10:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	200 - 298 E. 6th St., La Porte, TX	10:30 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2424 Park Ave., Kemah, TX	10:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	707 Bayshore Dr., La Porte, TX	10:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor. Heavy rain with lightening. 30 min. safety stand down.
5/11/2019	2905 Leroy St., Bacliff, TX	10:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3116 Michael St., Bacliff, TX	11:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3502 Walsh St., Bacliff, TX	11:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	1106 S. 8th St., La Porte, TX	11:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	622 Oklahoma Ave., Bacliff, TX	11:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	331 - 399 Bayshore Dt., La Porte, TX	12:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	4305 17th St., Bacliff, TX	12:15 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	CO	O2	Other Notes/ Observations
Saturday, May 11, 2019										
5/11/2019	1501 Poplar Cove St., La Porte, TX	12:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor. Stopped duties due to rain (40 min.)
5/11/2019	4438 1st St., Bacliff, TX	12:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	4751 5th St., Bacliff, TX	12:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	5439 FM 646, Bacliff, TX	1:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	410 27th, San Leon, TX	1:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2000 Troon Dr., La Porte, TX	1:45 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2311 Avenue D, San Leon, TX	1:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2757 S. Broadway St., La Porte, TX	2:05 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2247 Avenue L, San Leon, TX	2:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2978 - 2998 Ivy Dr., La Porte, TX	2:25 PM	MultiRAE Benzene							No readings taken due to continuous rain.
5/11/2019	917 16th St., San Leon, TX	2:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	Avenue O/10th St., San Leon, TX	2:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	1222 11th St., San Leon, TX	3:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	913 Avenue K, San Leon, TX	3:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	242 12th St., San Leon, TX	3:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3431 - 3499 Miramar Dr., La Porte, TX	4:10 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	CO	O2	Other Notes/ Observations
Saturday, May 11, 2019										
5/11/2019	101 1st St., San Leon, TX	4:15 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3543 Bayou Forest Dr., La Porte, TX	4:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	642 4th St., San Leon, TX	4:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	1051 10th St., San Leon, TX	4:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor