

# **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 (H<sub>2</sub>S), carbon monoxide (CO), and oxygen levels (O<sub>2</sub>).

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
<b>Friday, May 10, 2019</b>										
5/10/2019	1000 2nd St, Seabrook, TX	8:45 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	2400 Hammer St., Seabrook, TX	9:05 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	500 El Jardin Dr., Seabrook, TX	9:25 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	605 Pine Gully Rd., Seabrook, TX	9:45 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	4617 Todville Rd., Seabrook, TX	10:05 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	2217 Crimson Cove Ct., League City, TX	10:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	Todville Rd./Brummer Hop, Seabrook, TX	10:25 PM	MultiRAE Benzene	2.4 ppm	0%	45.2 ppm	0 ppm	0 ppm	20.9%	2nd benzene = 2.6 ppm; 2nd VOC = 60.2. Levels vary with wind strength. Strong odor of petroleum.
5/10/2019	2202 Meadows Blvd., League City, TX	10:30 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Very strong sweet odor.
5/10/2019	2951 Marina Bay Dr., League City, TX	10:45 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	1210 Bayport Blvd., Seabrook, TX	10:55 PM	MultiRAE Benzene	0 ppm	0%	2.4 ppm	0 ppm	0 ppm	20.9%	Slight petroleum odor
5/10/2019	2202 Meadows Blvd., League City, TX	11:10 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	Todville Rd./Brummer Hop, Seabrook, TX	11:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	2305 E. Main St., League City, TX	11:20 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Very slight sweet odor.
5/10/2019	215 Kipp Ave., Kemah, TX	11:35 PM	MultiRAE Benzene	0.2 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Smell odor

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<b>Friday, May 10, 2019</b>										
5/10/2019	302 11th Ave., Seabrook, TX	11:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/10/2019	2451 E. Main St., League City, TX	11:40 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Very slight sweet odor.
5/10/2019	1414 Bayshore Dr., Kemah, TX	11:55 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Light odor
<b>Saturday, May 11, 2019</b>										
5/11/2019	2306 Carina Ct., League City, TX	12:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	104 Park Cir., Kemah, TX	12:06 AM	MultiRAE Benzene	0 ppm	0%	2.5 ppm	0 ppm	0 ppm	20.9%	Heavy smell
5/11/2019	617 Constellation Blvd., League City, TX	12:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	523 Lighthouse Blvd., League City, TX	12:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	622 Oklahoma Ave., Bacliff, TX	1:00 AM	MultiRAE Benzene	0.4 ppm	0%	0.5 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2525 South Shore Blvd., League City, TX	1:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	4807 W. Bayshore Dr., Bacliff, TX	1:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	500 Enterprise Ave., League City, TX	1:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	635 Appia Dr., Kemah, TX	1:45 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2700 E. Bayshore Dr., Dickinson, TX	1:50 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2655 Broadway St., Dickinson, TX	2:10 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2104 W. 7th St., Seabrook, TX	2:15 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
<b>Saturday, May 11, 2019</b>										
5/11/2019	1514 3rd St., Seabrook, TX	2:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Slight sweet odor.
5/11/2019	103 1st St., Dickinson, TX	2:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	910 Grunewald Ave., Seabrook, TX	2:55 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Slight sweet odor.
5/11/2019	2351 E. Bayshore Dr., Dickinson, TX	3:00 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	415 11th Ave., Seabrook, TX	3:15 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2605 E. Bayshore Dr., Dickinson, TX	3:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2401 E. Meyer Ave., Seabrook, TX	3:35 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	12850 FM 3436 Rd., Dickinson, TX	3:42 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	1708 Les Talley Dr., Seabrook, TX	3:58 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	4380 Village Way, League City, TX	4:05 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2601 North Repsdorph Rd., Seabrook, TX	4:20 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	3705 Columbia Memorial Pkwy., League City, TX	4:25 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	5745 Bayport Blvd., Seabrook, TX	4:40 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor
5/11/2019	2305 E. Main St., League City, TX	4:50 AM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	Strong odor
5/11/2019	675 Mills Rd., Bacliff, TX	12:35 PM	MultiRAE Benzene	0 ppm	0%	0 ppm	0 ppm	0 ppm	20.9%	No odor