CTEH®

THE SCIENCE OF READY℠

BAYPORT CHANNEL COLLISION

UNIFIED COMMAND

Preliminary Air Monitoring Summary

La Porte, TX

May 11, 2019 00:00 – 06:00

Project #111608

1.0 Introduction

On May 10, 2019, Bayport Channel Collision Unified Command requested that CTEH® conduct air monitoring after a barge collision in La Porte, Texas. CTEH® arrived on-site on May 10, 2019 and began air monitoring operations. CTEH® is currently conducting air monitoring in the surrounding residential areas.

The present summary discusses real-time air monitoring data collected within those community areas from May 11, 2019 00:00 to May 11, 2019 06:00. During this reporting period, CTEH® performed real-time air monitoring in residential areas west of the incident site including Seabrook, La Porte, El Lago, Pasadena, Clear Lake Shores, League City, Texas City, Bacliff, Dickinson, Houston, Friendswood, Alvin, Pearland, Webster, and Morgan's Point.

2.0 Air Monitoring Methods

CTEH® developed and implemented a preliminary Community Air Sampling and Analysis Plan (SAP) to document and quantify the release of fugitive emissions, if any, from the incident. All instrumentation was calibrated at least once per day or per manufacturer's recommendations. Target analytes were measured as listed in **Table 1**, below. Roaming air monitoring was performed in community areas with hand-held instruments. All hand-held air monitoring was conducted in the breathing zone.

3.0 Air Monitoring Results

Attachment A provides maps of the locations of hand-held air monitoring locations. **Table 1** summarizes the results for community hand-held air monitoring.

Table 1: Community Hand-Held Real-Time Air Monitoring Results

Analyte	Instrument	# of Readings	# of Detections	Detection Range[1]
Benzene	Gastec #121L	14	0	<0.05 ppm
	UltraRAE	157	0	<0.025 ppm
%LEL	MultiRAE	47	0	<1 %
Toluene	Gastec #122	2	0	<1 ppm
	Gastec #122L	19	0	<0.5 ppm
VOCs	MultiRAE	498	20	0.1-3.5 ppm
Xylene	Gastec #123	2	0	<1 ppm
	Gastec Tube #123L	19	0	<1 ppm

[1]Maximum detections preceded by the "<" symbol are considered non-detections below the limit of detection (LoD) value to the right.

Between May 11, 2019 00:00 to May 11, 2019 06:00, CTEH® performed air monitoring for benzene, %LEL, toluene, VOCs, and xylene. During this reporting period, CTEH® personnel observed 20 detectable concentrations of VOCs in the community, ranging from 0.1 – 3.5 ppm. Following detections of VOCs, benzene readings were taken at those locations to determine if further action was required. In total, CTEH® personnel observed no detectable concentrations of benzene, %LEL, toluene, and xylene in the community during this reporting period.

4.0 Weather Conditions

Attachment B contains a wind rose depicting wind speed and direction for this reporting period. Data was acquired from the Texas Commission on Environmental Quality (TCEQ) Seabrook Friendship Park meteorological station located on Park Drive approximately 4 miles west of the incident site.

Attachment A

CTEH Community Air Monitoring Locations

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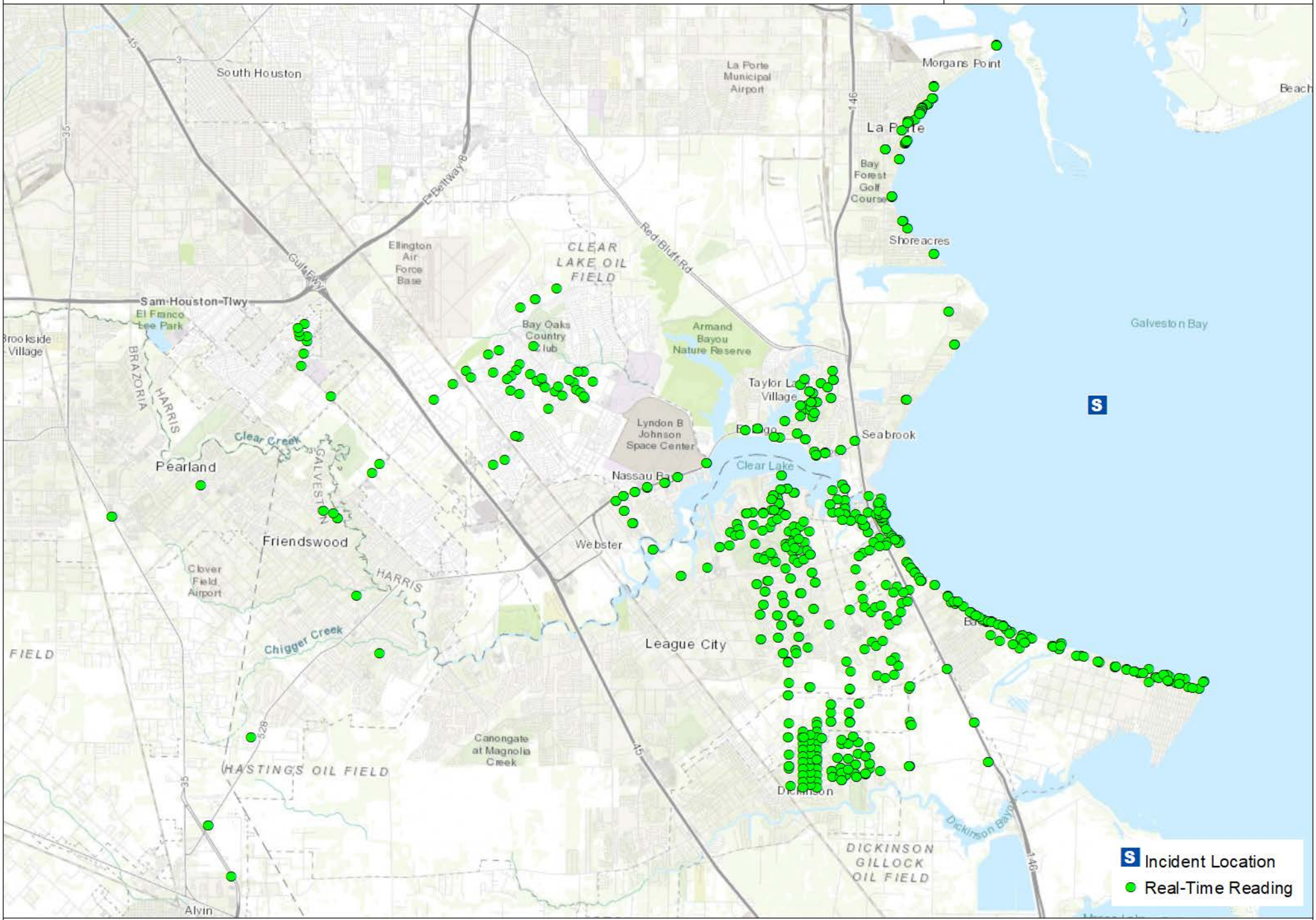
Bayport Channel Collision

Community Hand-Held Real-Time Monitoring Locations | May 11, 2019 00:00 to May 11, 2019 06:00

0 0.5 1 2 Miles

City: La Porte, TX
County: Harris



Projection System: Transverse Mercator Datum: WGS 1984 UTM Zone 15N Document Name: 111608_real_time_readings Last Updated: 5/11/2019 7:48:24 AM

*GPS Coordinates are Approximate

Attachment B

Meteorological Conditions

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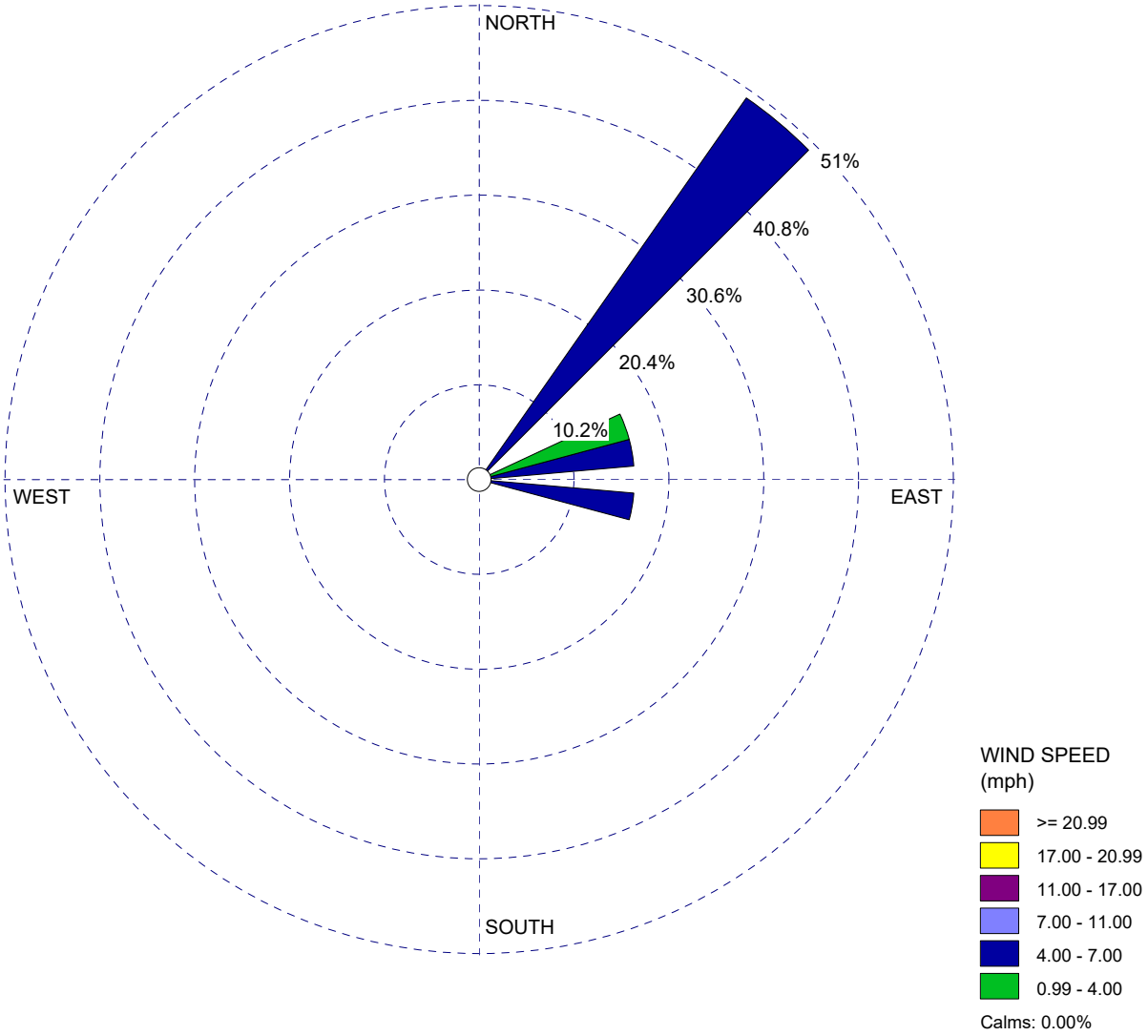
WIND ROSE PLOT:

Station #Seabrook Friendship Park

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 5/11/2019 - 00:00** **End Date: 5/11/2019 - 05:00**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **6 hrs.**	
	AVG. WIND SPEED: **3.83 mph**	DATE: **5/11/2019**	PROJECT NO.: **111608**