

**RECEIVED**

AUG 13 2021

Contra Costa Health  
Hazardous Materials

For CCHS Use Only:

Received By:

MK

Date Received:

8/13/21

Incident Number:

21081001

Copied To:

Event Classification Level:

1

**ATTENTION:** Matthew Kaufmann  
Hazardous Materials Program Director  
Contra Costa Health Services Department  
4585 Pacheco Boulevard  
Martinez, CA 94553

**INCIDENT DATE:** August 10, 2021

**INCIDENT TIME:** 14:36

**FACILITY:** Chevron Richmond Refinery

**PERSON TO CONTACT FOR ADDITIONAL INFORMATION:** Patricia Roberts  
(510) 242-3887 (office)

## I. SUMMARY OF EVENT

Within one of the refinery process units, the control system responded to a perceived high pressure reading on a piece of equipment. As a result, the process control system routed gas to the flare at approximately 14:36. The flaring subsided by 15:10.

## II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION

After making a determination of potential off-site consequences from flaring, in accordance with the Contra Costa County Health Services (CCHS) incident notification policy, a CWS Level 1 notification was sent.

Primary: Community Warning System (CWS):

- Level 1 CWS activated at approximately 14:46
- Event Over CWS activated at approximately - Updates sent at 15:08 and final at 15:16

Secondary: Subsequent notifications via telephone to the agencies below

Agency	Person Reached	Phone Number	Time
Richmond Fire/ Police Central Dispatch	Dispatch – Badge 1183	510-620-6933	1449

Contra Costa County Health Services Department	Michael Duncan	925-655-3232	1500
BAAQMD	Josh-no last name given	415-749-4979	1503 & 1519
Cal-OES	Diego-no last name given	800-852-7550	1452
NRC – Event #1313321	Nguyen	800-424-8802	1508

The list above does not include all representatives from all agencies

**III. AGENCIES RESPONDING, INCLUDING CONTACT NAMES AND PHONE NUMBERS:**

At this time, we are aware of the following agencies that have responded.

Bay Area Air Quality Management District	Janet Carrasco/John Swanson	15:39
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**IV. EMERGENCY RESPONSE ACTION:**

The Chevron Fire Department Incident Command System was not required nor initiated, and Fire Brigade members were not mobilized.

No mutual aid was required for this event. Battalion 64 Victor Bontempo from Richmond Fire Department was contacted and informed of the event details.

Downwind monitoring was conducted both in the refinery and in the outside community by Chevron Fire Department to ensure no impact to persons. No detectable readings were noted on atmospheric testing equipment in any of the tested locations.

**V. IDENTITY OF MATERIAL RELEASED AND ESTIMATED OR KNOWN QUANTITIES:**

Emissions from flaring associated with the event are summarized below.

Vent gases were combusted with at least 98% combustion efficiency.

	Flare emissions
Vent Gas Volume (SCF)	589,000
SO <sub>2</sub> (lbs)	738

\* Flare emissions data presented herein is for the date of the flaring (8/10/2021). Estimates herein are based on currently available data. Upon further investigation and analyses, an update will be provided should a significant change of the data occur.

**VI. METEOROLOGICAL CONDITIONS AT TIME OF EVENT:**

Wind Speed (mph)	12.58 ( (Gertrude)
Wind Direction (degree)	169.9
Precipitation (inches)	N/A
Temperature (F)	78

Information based on data received from the Refinery's meteorological station which is located near Gertrude Street.

**VII. DESCRIPTION OF INJURIES:**

There were no injuries associated with the flaring.

**VIII. COMMUNITY IMPACT:**

There were no regulatory exceedances based on Ground Level Monitoring data. There are no detects above known health limits based on Air Monitoring data.

**Ground Level Monitoring Data Summary**

	Background Prior to and Maximum Concentration Readings During the Flaring		
	Castro Street	Office Hill	Gertrude Street
H <sub>2</sub> S (ppb) Background Average 13:30-14:35	3.525	4.975	2.902
H <sub>2</sub> S (ppb) Max. 14:35-15:09	4.036	5.514	3.504
SO <sub>2</sub> (ppb) Background 13:30-14:35	6.787	6.202	1.880
SO <sub>2</sub> (ppb) Max. 14:35-15:09	7.187	6.492	2.420

Note: The Cal/OSHA PEL for SO<sub>2</sub> is 2,000 ppb (2 ppm) averaged over an 8-hour period. The Cal/OSHA PEL for H<sub>2</sub>S is 10,000 ppb (10 ppm) averaged over an 8-hour period.

**Fence Line Air Monitoring Summary**

During the time period of flaring, no obvious detections were seen at fence line air monitoring stations.

**Community Air Monitoring Summary**

During the time period of flaring, no obvious detections were seen at community air monitoring stations.

**IX. INCIDENT INVESTIGATION RESULTS:**

An incident investigation will be conducted to determine the cause of the flaring.

**X. SUMMARIZE INVESTIGATION RESULTS BELOW OR ATTACH COPY OF REPORT:**

Results will be determined by the investigation.

**XI. SUMMARIZE PREVENTABLE MEASURES TO BE TAKEN TO PREVENT RECURRENCE INCLUDING MILESTONE AND COMPLETION DATES FOR IMPLEMENTATION**

Preventable measures will be determined by the investigation.