

Richmond Industrial Safety Ordinance Annual Report

Nicole Heath
Supervising Accidental Release
Prevention Engineer

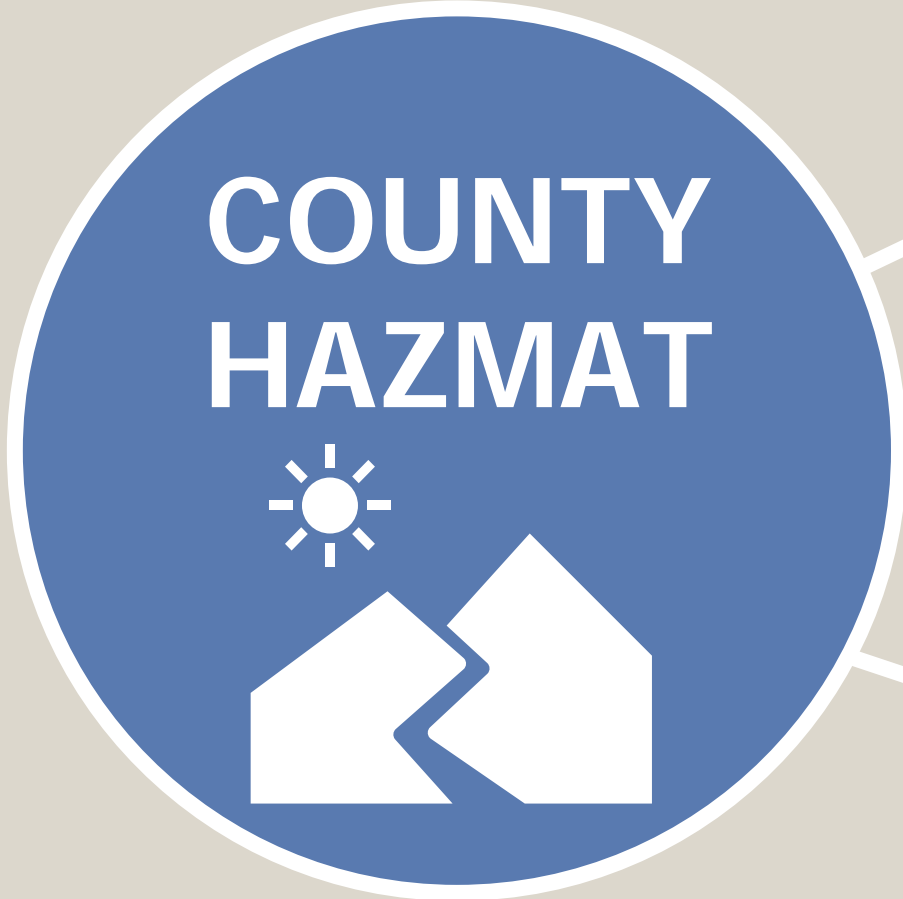
Email: Nicole.Heath@cchealth.org

Phone: 925-655-3240

<https://cchealth.org/hazmat/calarp/>

A Clean, healthy and safe environment

Our mission is to protect human health and the environment by promoting pollution prevention, increasing process safety knowledge and environmental awareness, responding to incidents and implementing consistent regulatory compliance and enforcement programs.



PROGRAMS

- Hazardous Materials Business Plans
- Hazardous Waste Generators
- Underground Storage Tanks
- Aboveground Petroleum Storage Act
- CalARP Program
- Green Business Plans
- Storm Water Program
- HazMat Response Team
- Unannounced Inspection Program
- Integrated Pest Management
- County's Industrial Safety Ordinance (ISO)

ACTIVITIES

STAFFING

8



Incidents

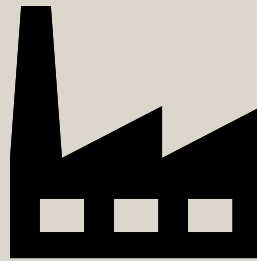


1992 Rhone
Poulenc Fire

1989 Chevron
Isomax Unit
Fire

1993 General
Chemical
Richmond Oleum
Release

2012
Chevron
Crude Unit
Fire



1994 Unocal
Catacarb®
Release

1999
Chevron
Isomax Unit
Fire

1996 Shell
Cat Gas Fire

1999 Tosco
Crude Unit
Fire

1997 Tosco
Hydrocracker
Fire

Risk Management Program

- Performance Based
- Regulated Substance
- Above Threshold Quantity
- 77 vs. 276 Toxic Chemicals



PROGRAM 3

Process Safety Information

Process Hazard Analysis

Operating Procedures

Training

Mechanical Integrity

Management of Change

Pre-Startup Safety

Review

Compliance Audits

Incident Investigation

Employee Participation

Hot Work Permits

Contractors

Emergency Response

Off-Site Consequence Analysis

Submit of a Risk Management
Plan

INDUSTRIAL SAFETY ORDINANCE (ISO)

(All Program 3 Requirements)

Human Factors

Management of Organizational Change

Inherently Safer Design

Root Cause Analysis Investigations

Safeguard Protection Analysis

Safety Culture Assessment

Common Process Safety Metrics (Indicators)

Submittal of a Safety Plan

PROGRAM 4

(All Program 3 Requirements)

Damage Mechanisms

Human Factors

Management of Organizational Change

Hierarchy of Hazard Control / Inherently Safer Design

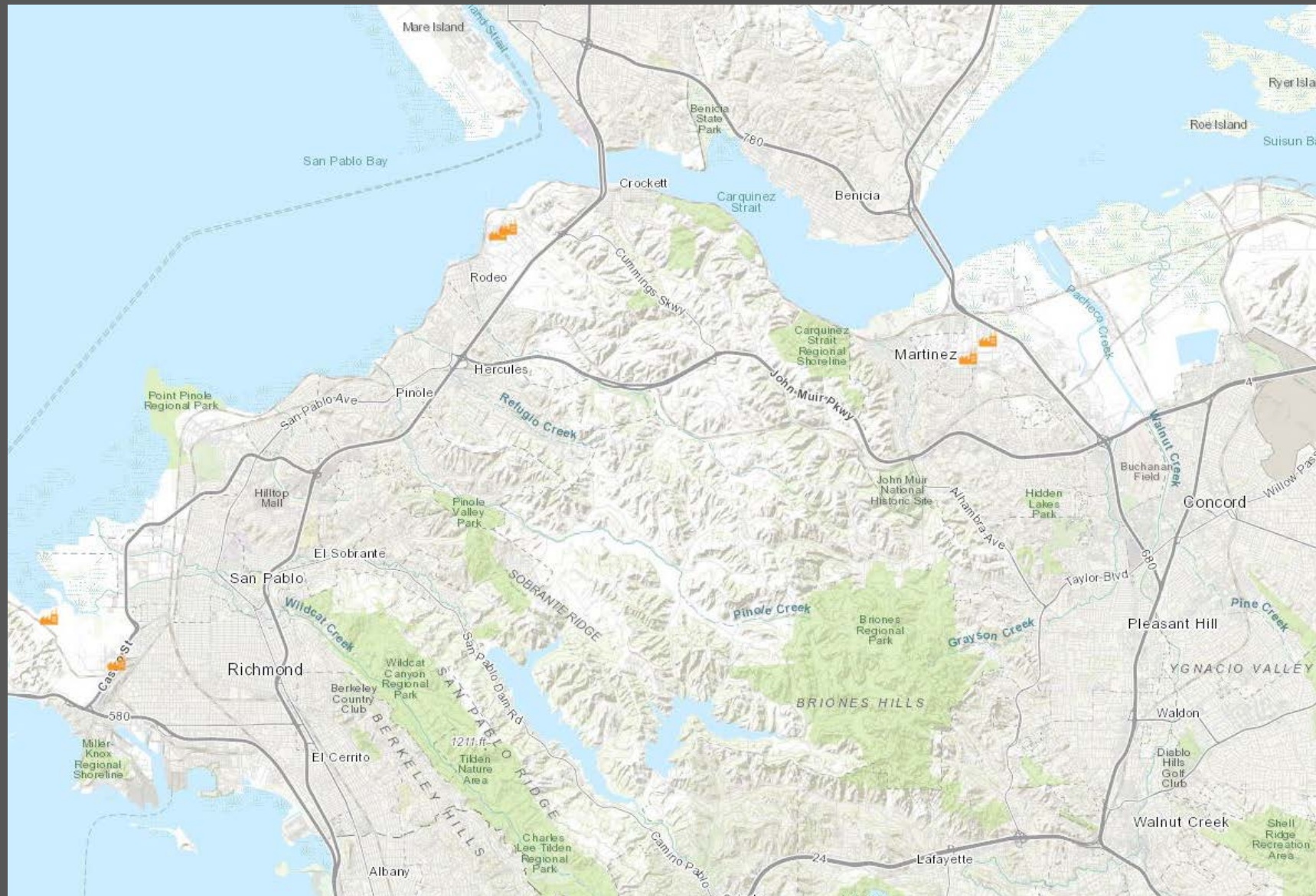
Root Cause Analysis Investigations

Safeguard Protection Analysis

Safety Culture Assessment

Management System

Map of ISO Facilities in Contra Costa



REGULATIONS



**COUNTY
HAZMAT**

**ISO
ANNUAL
REPORT**

Presentation: Industrial Safety Ordinance (ISO) report brief

- ◎ Contains all of the information required by ISO
- ◎ Major Chemical Accidents or Releases
- ◎ Annual report –Metrics
 - Performance Indicators
 - API incident rates

Audits Performed

- Martinez Refining Company

Feb 2021

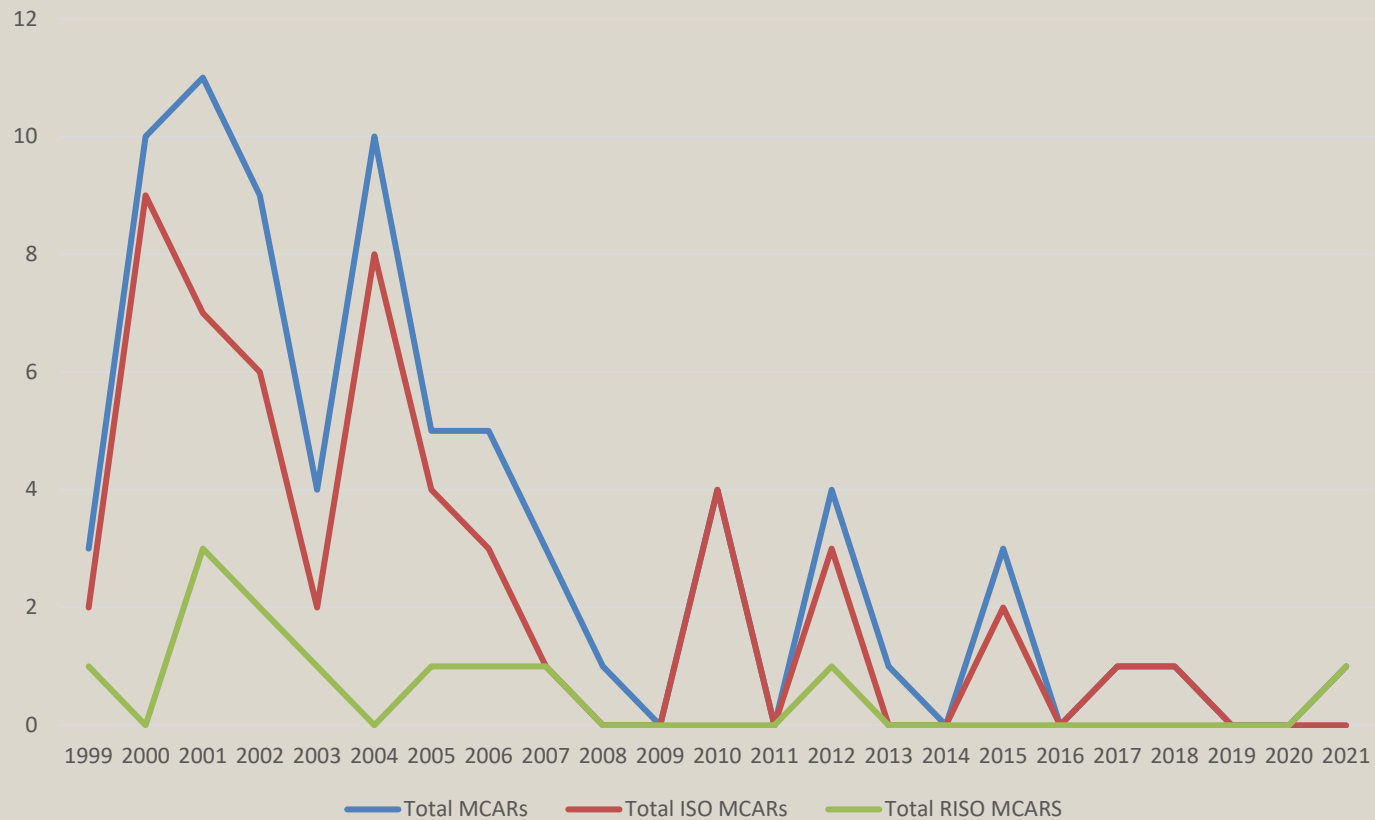
MAJOR CHEMICAL ACCIDENTS AND RELEASES



Major Chemical Accidents or Releases
(1999 – now)

County and Richmond ISO MCARs

Total MCARS vs ISO/RISO MCARS



2020

	Overdue Inspections	Past due PHA Rec.	Past due II Rec.
Air Liquide Large Industries	11	2	0
Air Products Shell	0	0	0
Chemtrade Richmond*	0	0	0
Chevron*	0	0	0
Martinez Refining Company	0	3	0
Phillip-66 Refinery	0	5	0

* Indicates the facility is located in Richmond.

Performance Indicators

Tier 1 Loss Of Primary Containment

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Refinery mean	-	1.49	1.3	1.38	1.55	1.01	1.13	0.92	1.03	.84
Air Liquide Large Industries	0	0	0	0	0	0	0	0	0	0
Air Products Shell	0	0	0	0	0	0	0	0	0	0
Chemtrade Richmond*	0	0	0	0		0	0	0	0	0
Chevron*	4	3	0	1	2	1	1	1	0	0
Martinez Refining Company	1	1	1	0	1	0	2	1	2	0
Phillip-66 Refinery	2	3	0	0	2	0	0	0	0	0

* Indicates the facility is located in Richmond.

Performance Indicators

Tier 2 Loss Of Primary Containment

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Refinery mean					3.08	2.78	2.73	2.79	2.67	1.8
Air Liquide Large Industries	0	0	0	0	0	0	0	0	0	0
Air Products Shell	0	0	0	0	0	0	0	0	0	0
Chemtrade Richmond*	0	0	0	0	0	0	0	1	0	0
Chevron*	5	8	6	3	1	3	5	4	0	1
Martinez Refining Company	2	0	5	2	5	1	2	2	5	1
Phillip-66 Refinery	5	3	0	1	2	2	2	0	2	2

* Indicates the facility is located in Richmond.

Performance Indicators

Chevron Richmond Refinery 2019 Audit

- This was the 7th audit for this facility
- There was a total of 45 Ensure Action Items

- Areas for Improvement:
 - Many programs need to have gaps addressed to meet new regulatory standards
 - Employee participation
 - Incident Investigation
 - PSSR
 - Fatigue management needs to be evaluated to address increases in employee working hours

- Areas of Note:
 - The 2022 audit was completed in June 2022 results will be shared in next years report out.

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To report a hazmat incident call please call 925-655-3200.

July 26, 2022