



Richmond Neighborhood Air Quality Assessment

Project Summary

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Point Richmond Neighborhood Council Meeting**

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Introduction

RCBA Section 2 .F(2) requires an air quality assessment in neighborhoods surrounding the Chevron Richmond Refinery.

This presentation summarizes the Project's equipment, sampling methods, locations, and implementation schedule...

...to gather input for consideration in the final scope of the project.

RCBA Requires:

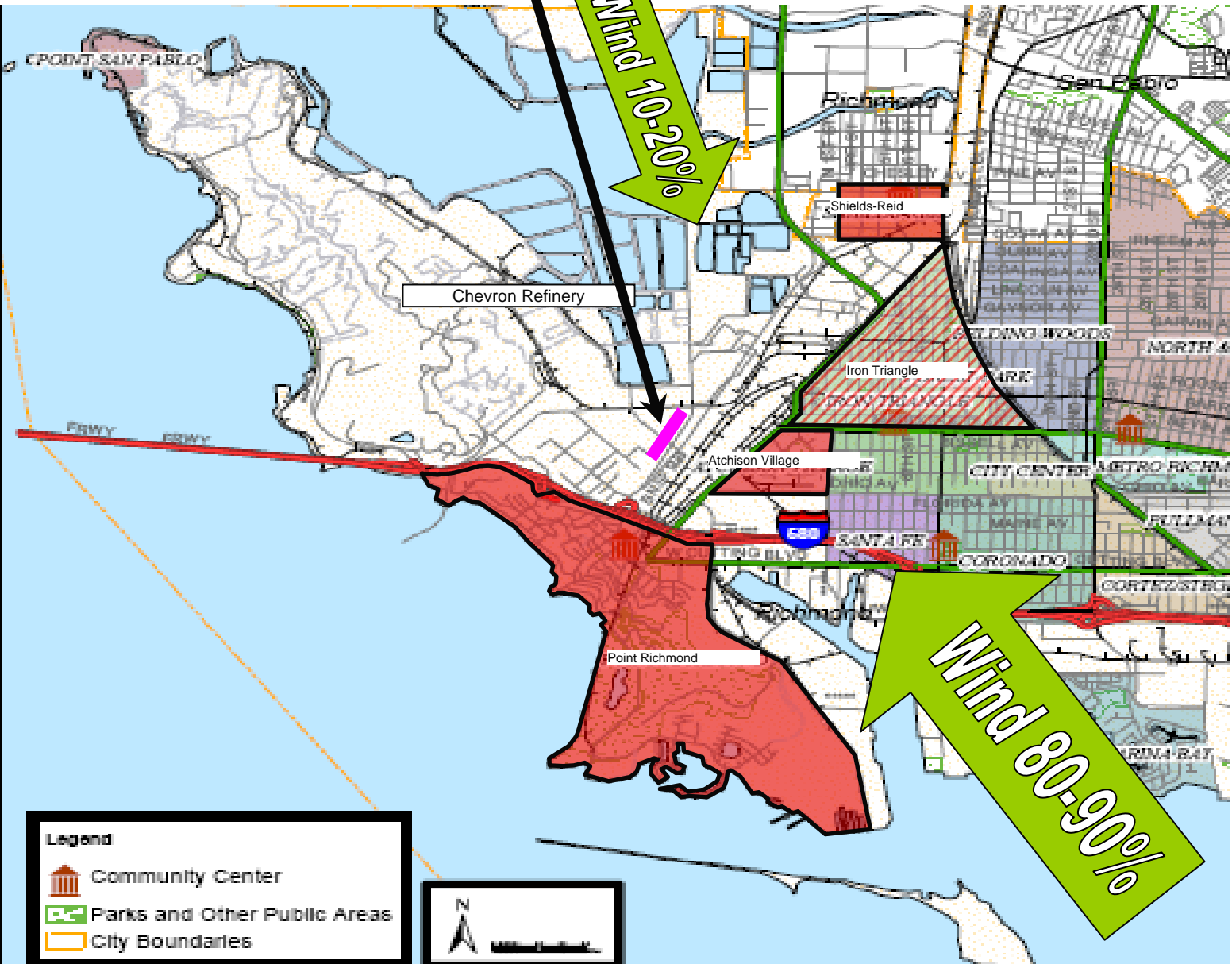
- Location assessment
- Refinery fence line monitoring
- Monitoring in the following neighborhoods:
 - North Richmond
 - Point Richmond
 - Atchison Village
- Measuring the following chemicals or chemical groups:
 - Volatile Organic Compounds (VOCs)
 - Metals
 - Hydrogen Sulfide (H₂S)
 - Polycyclic aromatic hydrocarbon chemicals (PAHs)
 - PM 2.5 Particulate Matter
- Quality assurance and dissemination of data

Fenceline (open path) Monitoring Station



- A beam of light identifies gases in the air
- Covers 1,000 yards of fence line
- Measures: benzene, toluene, xylene, sulfur dioxide, carbon disulfide, chlorine, phenol, and ozone
- Measurement takes place in real time
- Scheduled to operate for 2 years
- Data posted on a website (along with meteorological data, such as wind direction)
- Similar to the systems at other Bay Area refineries.

Fence Line Monitoring Path



Point Monitoring Station

Air drawn into samplers to measure the gases at the sample point.

Types of measures:

- - Criteria pollutants monitors (ozone, NO_x)
- - Particulate Samplers
- - Hydrogen Sulfide Sampler
- - Metals Sampler
- - Polycyclic Aromatic Hydrocarbons Sampler
- - Portable UV air sampling system
- - Canister Samples for VOC speciation
- - Meteorological Station (Met) station
- - Real time and laboratory analysis





Point Monitoring Station (Cont.)

- **Locate system in North Richmond, Point Richmond, and Atchison Village**

- **Location criteria for operability and data quality**

- **One year in each neighborhood**

- **Data posted on a website**

- **Similar to systems used by BAAQMD, CARB, and at other Bay Area refineries.**



Point Monitoring Station (Cont.)



Schedule



	2008	2009	2010	2011	2012	2013
Finalize Project Scope	[Bar]					
Purchase and Construct		[Bar]				
Fence Line Monitor			[Bar]			
Point Monitors:						
Point Richmond			[Bar]			
Atchison Village				[Bar]		
North Richmond					[Bar]	

Questions

**For refinery information contact:
Dean O'Hair (510) 242-2400**

**Refinery Noise and Environmental Hotline:
(510) 242-2127**

Web address for Monitoring Plan:

www.richmondrefinery.com

Click on 'Neighborhood Air Quality Monitoring'