

Addressing Environmental Risk Factors through Community Action Plan

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Center for Community Action and Environmental Justice







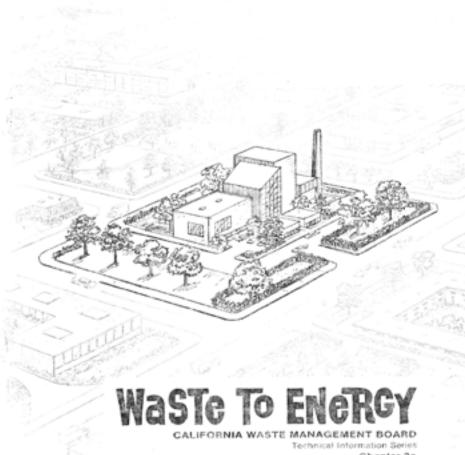
Unhealthy Communities by Design











"All socioeconomic groupings tend to resent the nearby siting of major facilities, but the middle and upper socioeconomic strata possess better resources to effectuate their opposition"

Chapter 3a

Political Difficulties Facing Waste-to-Energy Conversion Plant Siting









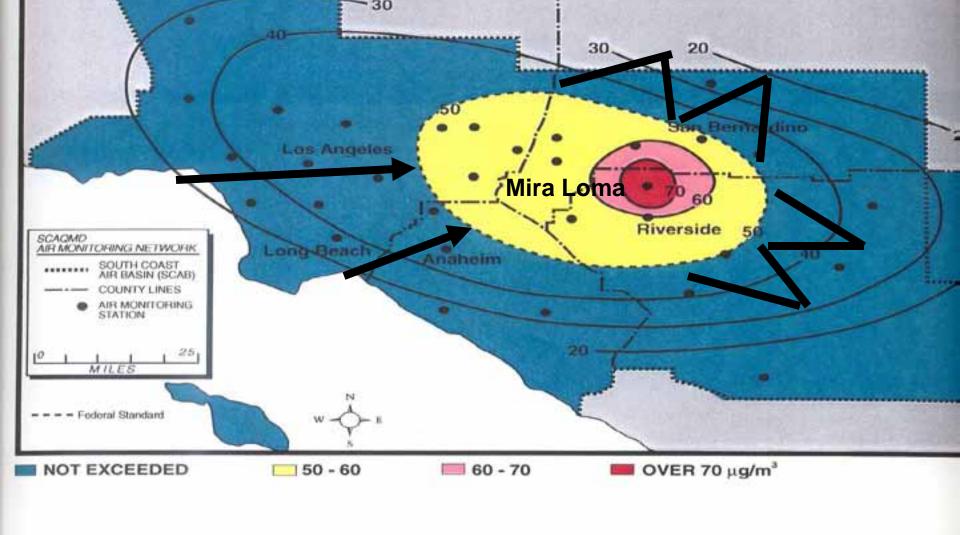
MIRA LOMA VILLAGE

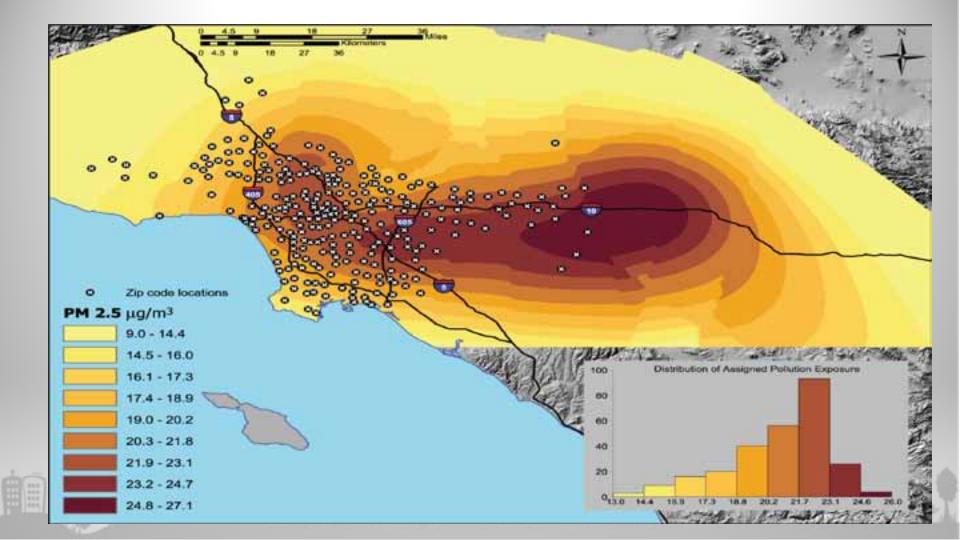
Healthy Communities by Design

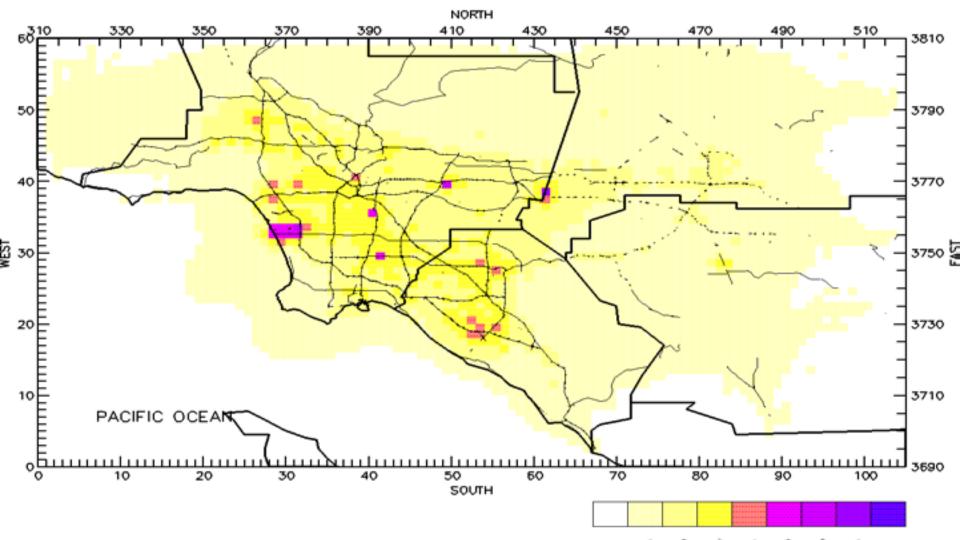
- Community Planning is key
- Environmental Risk Factors
- Case Study
- Develop a Community Action Plan to Reduce Exposure

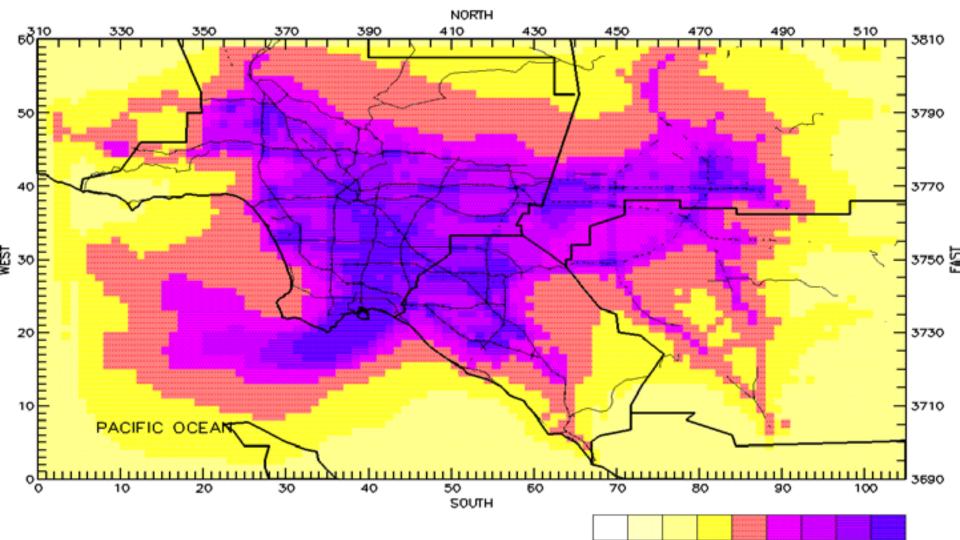
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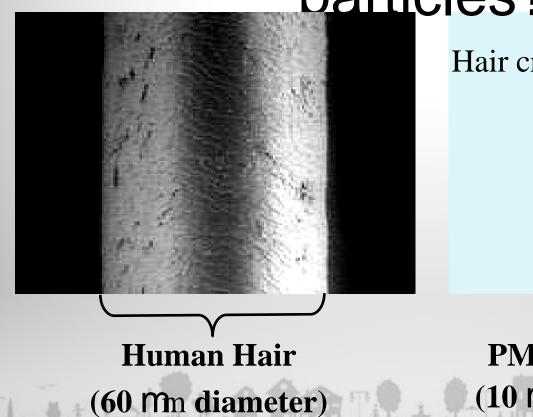






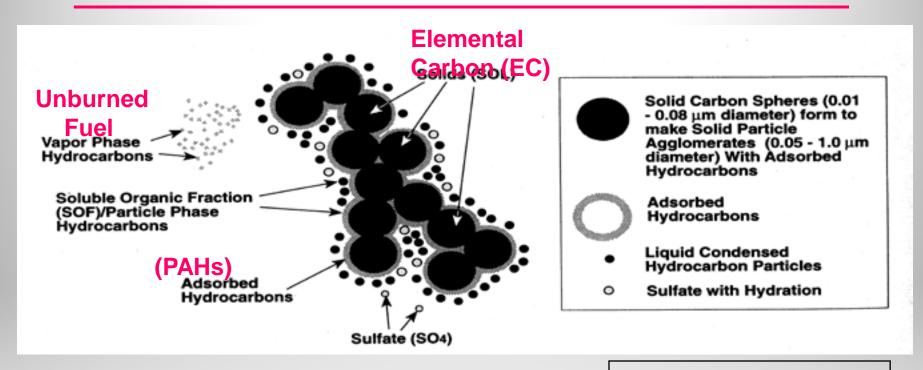


How small are these particles?



Hair cross section (60 mm) **PM0.1 PM2.5 PM10** (0.1 mm) (2.5 mm)(10 mm)

Diesel Particles



Health Effects Institute, 1995

Dr. John Froines, Director UCLA: Southern California Particulate Center and Supersite

Air Monitoring in the Inland Valleys

§ Highest levels of PM₁₀ in the Nation

\$Highest levels of PM 2.5 in the Nation

sHighest levels of ozone (smog)

pollution

Western end of the Inland Valley has the 4th* highest levels of particulate pollution in the world only after—

Jakarta, Indonesia; Calcutta, India; and Bangkok, Thailand.

World Health Organization, as cited by California Public Interest Research Group, CalPIRG, <u>Citizens'</u> <u>Agenda</u>, Vo. 13, No. 3; pg 4, Fall 1997.

^{*} The recent industrialization of China has created extreme pollution in China above the local levels.

Health Research: Hundreds of studies have linked the diesel pollution to a range of illnesses



vHeart disease **Diabetes**

vAsthma attacks **Low Birth Weight**

∨Lung cancer **Brain Tumors**

And Premature Death

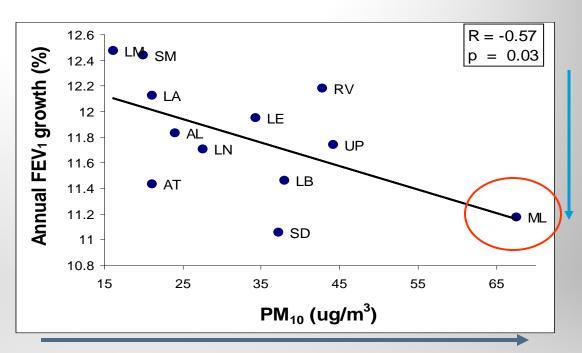
California Cases/Year due to PM2.5 *

Premature Deaths	8,200
Hospitalizations	4,200
Asthma & Lower Respiratory	210,000
Symptoms	
Lost Work Days	1,400,000
Minor Restricted Activity Days	7,500,000

By Comparison....Deaths by Car Accidents Murders 2,000

USC Children's Health Study

University of Southern California (USC), Children's Health Study found children in the Mira Loma area to have the slowest lung growth and



2"As Weak Steel Ing Illution and Lung Function Growth in Southern California Children", American Journal of Respiratory and Critical Care Medicine; Gauderman, W. James; McConnell Rob; et al, Department of Prevention, University of Southern California School of Medicine, Los Angeles.

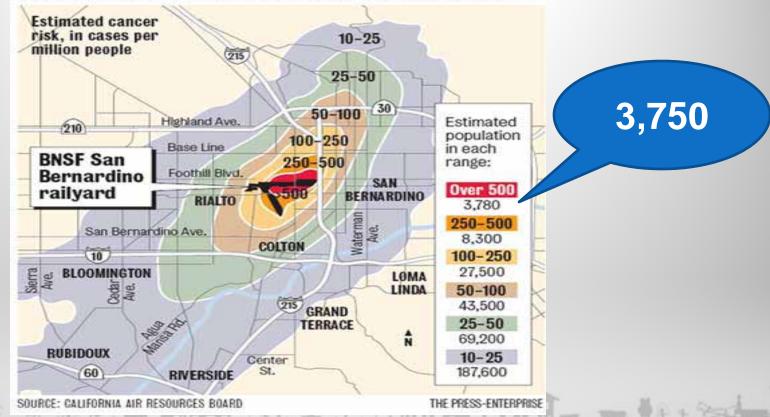
CANCER RISK: People living near BNSF Railway operations in San Bernardino face a much greater railyard-related cancer risk than people living near any of 15 other rail operations examined in state studies.

Railyard	Company	Max cancer risk to resident*
San Bernardino	BNSF Railway	3,300
Four railyards in the city of Commerce	BNSF & UP	Less than 1,000
Container tranfer facility Long Beach & Carson	Union Pacific	800
Oakland	UP	460
Barstow	BNSF	450
City of Industry	UP	450
Los Angeles Transportation Center	UP	250
Watson Railyard, Wilmington	BNSF	174
Colton	UP	150
Stockton	UP	150
Stockton	UP	120 • Number of cancer cases
Mira Loma auto railyard	UP	100 expected per million people, based on 70 years
Richmond	BNSF	100 of exposure.
San Diego	BNSF	70



SOURCE: CALIFORNIA AIR RESOURCES BOARD

DANGER ZONE: A state study found that people living downwind of the BNSF railyard in San Bernardino face an increased cancer risk of as many as 2,500 cases per million people. The estimated regional cancer risk from all air pollution is 1,000 cases per million people.



















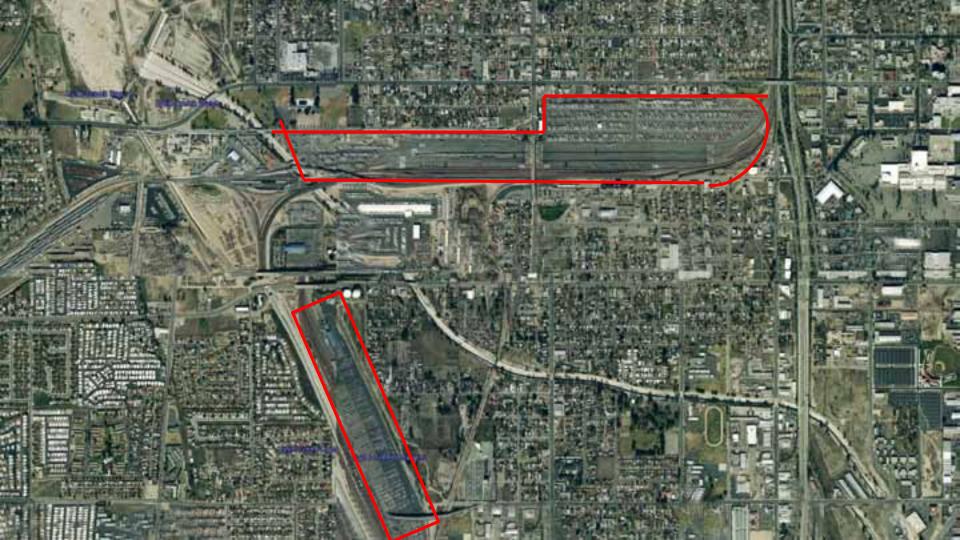




Union Pacific Auto Facility The auto facility expanded in June of 2004 from 162 acres to 274. One of the worlds largest facility, facilitates 2-3,000 autos











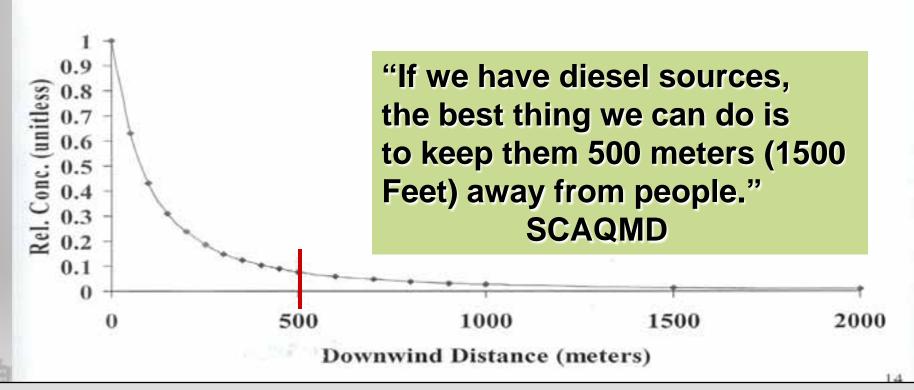




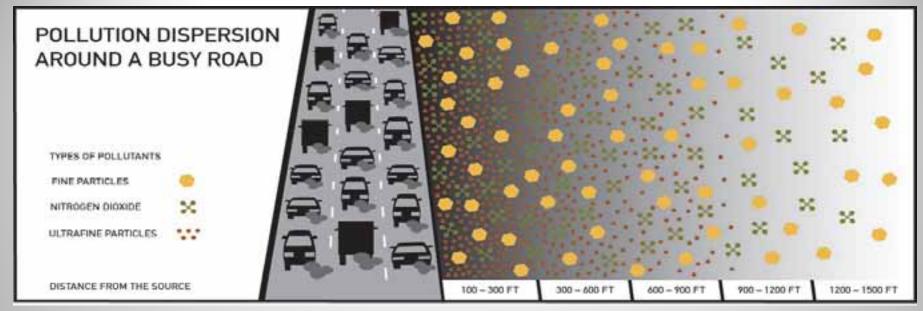


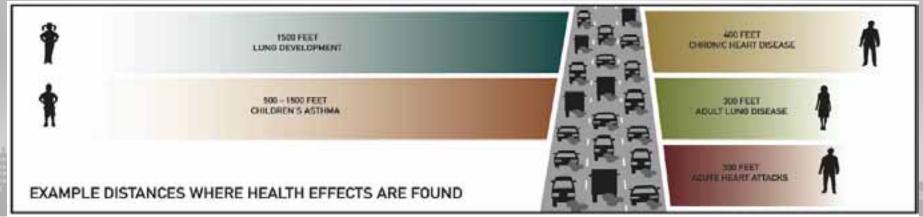


Sensitivity of Concentrations to Downwind Distance



SCAQMD "Mira Loma Specific Air Management Project", 2002. Presentation by Mike Nazemi before the Mira Loma Community Committee August 29, 2002





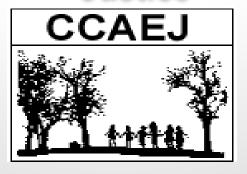






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