

Railyard Health Risk Assessments and Mitigation Measures

CATEGORIES

Topics Freight & Goods Movement

Programs Reducing Rail Emissions in California

Type Information

CONTACT

Freight Transport Branch

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Union Pacific (UP) and BNSF have prepared emission inventories and air dispersion modeling results for 17 major railyards in California. CARB staff reviewed and approved the inventories and modeling results and used this information to prepare health risk assessments for the 17 major railyards between 2007 and 2009. Based on the health risk assessments, UP and BNSF prepared draft mitigation plans to identify measures that would reduce the 17 major designated railyards diesel PM emissions from 2005-2020.

Previous to this effort (between 2000-2004) CARB worked with UP to prepare a health risk assessment for the UP Roseville Railyard. The UP Roseville Railyard is considered the largest classification (i.e., putting trains together) yard in the west.

CALIFORNIA RAIL YARD AGREEMENT: DESIGNATED AND COVERED YARDS



Union Pacific Railroad

Oakland

- Health Risk Assessment (2008)
 - HRA for the UP Oakland Railyard (April 22, 2008)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

City of Industry

- Health Risk Assessment (2008)
 - HRA for the UP City of Industry Railyard (April 18, 2008)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

Colton

- Health Risk Assessment (2008)
 - HRA for the UP Colton Railyard (April 18, 2008)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

ICTF and Dolores

- Health Risk Assessment (2008)
 - HRA for the UP ICTF and Dolores Railyards (April 22, 2008)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

Roseville (2004)

- HRA for the Union Pacific J.R. Davis Yard (October 14, 2004)

Commerce

- Health Risk Assessment (2007)
 - HRA for the UP Commerce Railyard (November 7, 2007)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

LATC

- Health Risk Assessment (2007)
 - HRA for the UP LATC Railyard (November 6, 2007)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

Mira Loma

- Health Risk Assessment (2007)
 - HRA for the UP Mira Loma Railyard (November 6, 2007)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

Stockton

- Health Risk Assessment (2007)
 - HRA for the UP Stockton Railyard (November 20, 2007)
 - Toxic Air Contaminant Emissions and Dispersion Modeling Report - Sierra Research

BNSF Railway

San Bernardino

- Health Risk Assessment (2008)
 - HRA for the BNSF San Bernardino Railyard (June 11, 2008)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Barstow

- Health Risk Assessment (2008)
 - HRA for the BNSF Barstow Railyard (June 9, 2008)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

San Diego

- Health Risk Assessment (2008)
 - HRA for the BNSF San Diego Railyard (June 9, 2008)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Four Combined Commerce Railyards (UP Commerce, BNSF Hobart, BNSF Eastern, and BNSF Sheila)

- Health Risk Assessment (2007)
 - HRA for the 4 Commerce Area Railyards

Hobart

- Health Risk Assessment (2007)
 - HRA for the BNSF Hobart Railyard (November 2, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Commerce Eastern

- Health Risk Assessment (2007)
 - HRA for the BNSF Commerce Eastern Railyard (November 2, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Sheila Mechanical Facility

- Health Risk Assessment (2007)
 - HRA for the BNSF Sheila Railyard (November 2, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Watson

- Health Risk Assessment (2007)
 - HRA for the BNSF Watson Railyard (November 2, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Stockton

- Health Risk Assessment (2007)
 - HRA for the BNSF Stockton Railyard (November 20, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

Richmond

- Health Risk Assessment (2007)
 - HRA for the BNSF Richmond Railyard (November 20, 2007)
 - Air Dispersion Modeling Assessment of Air Toxic Emissions - ENVIRON International
 - Emissions Inventory - ENVIRON International Report

RELATED RESOURCES

**Mobile Source
Strategy**

**2025 Mobile Source
Strategy**

**January 12, 2022
Public Webinar
Transcript**

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