



## WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the West Coast Collaborative is to leverage federal funds to strategically reduce emissions from the most polluting diesel sources in impacted communities. The Collaborative seeks to improve air quality and public health by targeting the highest polluting engines with the most cost effective control strategies.

# DERA 2017: Low NOx Truck Replacements in Southern California

The West Coast Collaborative (WCC) is pleased to announce the South Coast Air Quality Management District's (SCAQMD's) receipt of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) grant to replace heavy-duty diesel drayage trucks. This project will be implemented using \$1,050,000 in DERA grant funding combined with \$1,000,000 in matching funds and \$300,000 in leveraged funds from participating fleets.

### What is the Project?

This project will replace ten 2012, or newer heavy-duty diesel drayage trucks with 2017, or newer trucks powered by compressed natural gas (CNG) engines certified to meet the California Air Resources Board's (CARB's) Optional Low NOx emission standard of 0.02 g/bhp-hr. The 2012+ trucks will be transferred to the Washington State to replace ten model year 1995–2006 heavy-duty diesel drayage trucks, which will then be scrapped.

### Why is this project important?

Exposure to diesel exhaust has been associated with decreased lung function and retarded lung development and can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project will reduce human exposure to diesel emissions as well as the negative health effects associated with exposure. The target fleets will be comprised of drayage trucks operating in California's Los Angeles and San Bernardino counties, and Washington's King and Pierce counties. These counties are disproportionately impacted by heavy-duty diesel traffic along the major transport corridors, as well as by goods movement operations at ports, rail yards, warehouses, and distribution centers.

### What are the Environmental Benefits?

Over the remaining lifetime of the 10 affected engines, these upgrades are estimated to reduce emissions of oxides of nitrogen (NOx) by 8.6 tons, fine particulate matter (PM2.5) by 0.5 tons, hydrocarbons (HC) by 0.4 tons, carbon monoxide (CO) by 1.8 tons, and carbon dioxide (CO<sub>2</sub>) by 284 tons. Additionally, the reduction of PM2.5 emissions will reduce black carbon (BC), which influences climate by directly absorbing light, reducing the reflectivity ("albedo") of snow and ice through deposition, and interacting with clouds. The project will also conserve nearly 132,000 gallons of diesel fuel by employing CNG technology.

### Who are the Partners on this project?

The project will be led by SCAQMD, a regional agency with jurisdiction over air quality in California's South Coast Air Basin, in partnership with the Puget Sound Clean Air Agency (PSCAA) and participating trucking fleets. SCAQMD received the DERA grant award through the WCC, and will distribute the grant funds to participating truck fleets. SCAQMD will be responsible for data monitoring and reporting for the project.

### What is the Collaborative?

The WCC is an ambitious partnership between leaders from federal, state, local, and tribal government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. Partners come from all over Western North America, including: Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Washington, the Pacific Islands, Canada and Mexico. The WCC is part of the US EPA National Clean Diesel Campaign ([www.epa.gov/cleandiesel](http://www.epa.gov/cleandiesel)).

### How can I find out more Information?

For more information on this project, please contact John Mikulin at US EPA ([mikulin.john@epa.gov](mailto:mikulin.john@epa.gov) / 415-972-3956). For more information on the WCC, please visit our website. [www.westcoastcollaborative.org](http://www.westcoastcollaborative.org)