



## WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

The goal of the 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: Public Works Vehicle & School Bus Replacements in Nevada

The West Coast Collaborative (WCC) is pleased to announce the Nevada Division of Environmental Protection's (NDEP's) completion of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) State Program grant to replace heavy-duty diesel vehicles operating throughout Nevada. This project was implemented using \$348,002 in DERA grant funding combined with \$232,001 in matching funds from NDEP/Volkswagen Environmental Mitigation Trust, and \$1,781,903 in cost-share funds from participating fleets.

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### What is the Project?

This project replaced five legacy diesel school buses, and five legacy diesel public works vehicles (3 flusher trucks, 1 dump truck, and 1 pain stripper truck) with new vehicles powered by model year 2017 and newer engines. The older, replaced vehicles were permanently destroyed.

### What are the environmental benefits?

Over the remaining lifetime of the 10 affected engines, these upgrades will reduce emissions of fine particulate matter (PM<sub>2.5</sub>) by 0.4 tons, nitrogen oxides (NO<sub>x</sub>) by 4 tons, hydrocarbons (HC) by 0.5 tons, carbon monoxide (CO) by 1.8 tons, and carbon dioxide (CO<sub>2</sub>) by 70 tons. Reduction of PM<sub>2.5</sub> emissions will also 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. Additionally, this project will conserve nearly 6300 gallons of diesel fuel using more modern, efficient diesel powertrain technology.

### Who are the Partners on this project?

The project was led by NDEP, a state agency whose mission is to preserve and enhance the environment of Nevada in order to protect public health, sustain healthy ecosystems, and contribute to a vibrant economy. NDEP received the DERA grant award through the WCC, and distributed grant funds to fleet partners Clark County School District and City of Reno Public Works Department. NDEP was also responsible for managing and reporting results for the project.

### What is the Collaborative?

The WCC is an ambitious partnership between leaders from federal, state, local and tribal governments, the private sector, academia, 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.

<https://www.epa.gov/dera>

### 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 at [www.westcoastcollaborative.org](http://www.westcoastcollaborative.org)