

**FINAL REPORT**

ML11045

Purchase of One Heavy-Duty CNG Vehicle

City of Newport Beach

August 9, 2019

Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under the  
AB2766 Discretionary Fund Work Program

## **Acknowledgements**

City of Newport Beach purchased one new Peterbilt CNG Vactor Ramjet from Haaker Equipment Company. The City placed the vehicle in service starting February 2016.

*This report was submitted in fulfillment of ML11045 and Purchase of One Heavy-Duty CNG Vehicle by City of Newport Beach under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of August 2019.*

## **Disclaimer**

*The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAQMD). The mention of commercial products, their sources or their uses in connection with material reported is not to be construed as either an actual or implied endorsement of such products.*

## **Project Description and Work Performed**

City of Newport Beach staff issued a Purchase Order (PO) to HAAKER EQUIPMENT COMPANY in 2014 to manufacture a Peterbilt CNG Vactor Ramjet sewer rodder heavy-duty vehicle. Due to delays with final specifications, the Vactor was delivered in February 2016 and put into service shortly thereafter.

The compressed natural gas powered vactor truck replaced an existing 1998 and aging diesel powered truck. The City continues to incorporate alternative fuel heavy-duty type vehicles into its fleet and seeks to expand its overall alternative fuel fleet whenever possible.

Purchase of this vactor enables the City of Newport Beach to comply with South Coast Air Quality Management District (SCAQMD) requirements for alternative fuel heavy-duty vehicle and reinforces the City's commitment to promoting and using clean energy.

## **Problems Encountered**

The delivery of the vehicle was delayed due to finalizing vehicle specifications with the manufacturer. This required the City to amend and extend the contract with MSRC to comply with the five-year operational requirement of the grant program. However, once in operation, the City has not experienced any significant operational problems with the new CNG heavy-duty vehicle.

## **Emissions Benefits**

Attached for your review is a copy of the Air Resources Board Executive Order A-021-0615 certifying the benefits of the engine and emission controls produced by the vehicle's engine manufacturer, Cummins.

## **Photographs & Outreach**

- The vehicle was promoted with an article as part of the Newport Beach's City Manager Newsletter on April 7, 2017. The City distributed the weekly newsletter via email to major stakeholders within the city and those on the subscription list. The City Manager Newsletter was also posted on the City's website for the viewing public.
- A MSRC placard was permanently adhered to the vehicle as shown in the picture:





## MUNICIPAL OPERATIONS DEPARTMENT

April 7, 2017

**TO:** Dave Kiff, City Manager  
**FROM:** George Murdoch and Mike Pisani, Directors  
**SUBJECT:** City Manager's Newsletter

### **City's Continued Commitment to Use of Alternative – Fuel Vehicles**

In January 2012, the City entered into an agreement with the South Coast Air Quality Management District (SCAQMD) through its Mobile Source Air Pollution Reduction Review Committee (MSRC), a local government match program to continue the City's commitment to integrating alternative fuel vehicles within its fleet. In late 2014, the Municipal Operations Department ordered a CNG-powered sewer rodder truck in the amount of \$383,329, with \$30,000 in MSRC grant funds offsetting the City's total costs. This CNG-powered vehicle replaced a similar 1998 diesel truck.



The Municipal Operations Department's Wastewater Division received the vehicle in February 2016 and it was placed into service shortly thereafter. Since then, the rodder truck with its specially designed and built hydro flusher has assisted the Wastewater Division crews with the cleaning of over 200 miles of sewer lines. In addition, the truck's short wheelbase enables it to navigate through the narrow alleys and streets on the islands and Newport peninsula. Lastly, the CNG-powered truck is equipped with street flushers for cleanup of City streets in the event of car accidents or other debris that cannot be swept up.

With the purchase of this heavy-duty, alternative fuel vehicle, the City continues its commitment to expanding the use of environmentally friendly, low emissions vehicles in its daily operations while meeting the objectives of the MSRC's grant program to reduce emissions and improve air quality in the region.

## **Summary and Conclusions**

The purchase of the CNG Vactor Ramjet enhanced the ability of City of Newport Beach to comply with the South Coast Air Quality Management District (SCAQMD) requirements for alternative fuel heavy-duty vehicles and further reinforced the City's commitment to clean energy and lower emissions of our City's fleet.