

PROJECT SUMMARY (FINAL REPORT)

For

CONTRACT AB 2766/ML 18042

PROCUREMENT OF ONE ON-ROAD LIGHT-DUTY ZERO EMISSION VEHICLE

CITY OF SAN FERNANDO

October 4, 2018

Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under the AB 2766 Discretionary Fund Work Program.

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 herein is not to be construed as either an actual or implied endorsement of such products.

Project Summary and Conclusions

The scope of the project entailed the procurement of a light-duty, zero-emission vehicle for use within the City of San Fernando's Community Development Department.

The City is striving to reduce its carbon footprint in response to the air quality challenges within our region. With the aspiration of reducing the City's carbon footprint, it was determined that transitioning the City's fleet away from gas-fueled vehicles (as much as possible) to zero-emissions vehicles would be a great place to start.

The funds obtained through the Local Government Partnership program were used towards the purchase of a 2018 Ford Focus (P3R) Electric Hatch. The zero-emission electric vehicle replaced a 20 year old (1998) gas-fueled Ford Crown Victoria, which had over 100,000 miles and was used for code enforcement purposes. Not only did the purchase of a zero-emission vehicle help the City towards its effort to reduce its carbon footprint, the purchase also goes hand-in-hand with the City's recently completed electric vehicle charging station project. The charging station project saw the installation of one dual-port station at five different locations within the City and was partially funded through the AB 2766/MSRC Local Government Match Program.

Emissions Benefits

The quantitative benefits gained from transitioning from an aging gas-fueled vehicle to a new zero-emission vehicle are as follows:

- Based on fuel consumption figures reported for calendar years 2016 and 2017, the gas-fueled vehicle emitted an estimated three tons of CO₂ into the atmosphere per year.
 - Replacing the gas-fueled vehicle with the zero-emission vehicle eliminates three tons of CO₂ being released into the atmosphere per year.
- Based on data obtained from DriveClena.ca.gov, the 20 year old (1998) gas-fueled Ford Crown Victoria has a zero rating for both greenhouse gas and smog emissions.
 - The zero-emission 2018 Ford Focus (P3R) Electric Hatch has a rating of 10 (Best Rating) for both greenhouse gas and smog emissions.
- The City's "total fleet" fossil fuel consumption will be reduced by 300 gallons per year.
 - The gas-fueled Ford Crown Victoria consumed an average of 300 gallons of gasoline per year over the last two years; average annual fuel cost of \$2,250 per year.
 - The zero-emission 2018 Ford Focus will consume zero gallons of gasoline per year; average annual charging cost of \$600.

Recommended Future Actions

The City of San Fernando will continue to pursue grant opportunities which help fund the purchase of zero-emissions and low-emissions fleet vehicles. The purchase of low-emissions vehicles is necessary due to two specific reasons; City has a high number of utility trucks (e.g., F150/250) within its fleet and the lack of zero-emission utility trucks manufactured. Any low-emission vehicle purchased will be compressed natural gas (CNG) fueled to coincide with the City's recently upgraded CNG fueling station. The CNG upgrade project was also partially funded through the AB 2766/MSRC Local Government Match Program.

Acknowledgements

This report was submitted in fulfillment of Contract **AB 2766/ML 18042** for (Procurement of One On-Road Light-Duty Zero Emission Vehicle) and submitted by the City of San Fernando under the (partial) sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of July 18, 2018.





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