

# **FINAL REPORT**

**CONTRACT NUMBER:** ML18143A  
**PROJECT TITLE:** CITY HALL CHARGING STATIONS  
**CONTRACTOR ORGANIZATION:** CITY OF LA HABRA  
**DATE:** APRIL 26, 2021



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

## **ACKNOWLEDGEMENTS**

In a partnership between the City of La Habra and the South Coast Air Quality Management District (SCAQMD), the use of AB 2766 Discretionary Grant Funds from the Mobile Source Air Pollution Reduction Review Committee (MSRC) Grant, along with M2 Fair Share funds as a local match, the City of La Habra was able to purchase and install two ChargePoint Electric Vehicle Charging Stations (EVCS) in the City Hall Parking Lot.

This report was submitted in fulfillment of ML18143A and City Hall Charging Stations Project by the City of La Habra under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of April 21, 2021.

## **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 (South Coast AQMD). 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 & WORK PERFORMED**

The City of La Habra purchased and installed one “ChargePoint CT4000, Level II” type Electric Vehicle (EV) charging station and one “ChargePoint Express CPE250, Level III” type EV charging station at City Hall, located at 110 E. La Habra Blvd, La Habra, California. Stations are accessible to the public 24 hours a day, 7 days a week. The scope of the work included project management, site planning, engineering and plan preparation necessary to obtain required building permit, including associated fees. Installation consisted of:

- The supply and installation of a new transformer to provide adequate power and proper voltage rating for EVCS use;
- The supply and installation of a main breaker and a disconnect, both to provide overcurrent protection; replacement of circuit breakers;
- The purchase and installation of electric vehicle charging stations; forming and pouring of concrete foundation for units; supply and installation of bollards for charging station protection; relocation of existing irrigation boxes; and
- The supply and mounting of EV parking signs and posts; asphalt trenching and minor restoration of pavement; pavement striping; and minor landscaping.

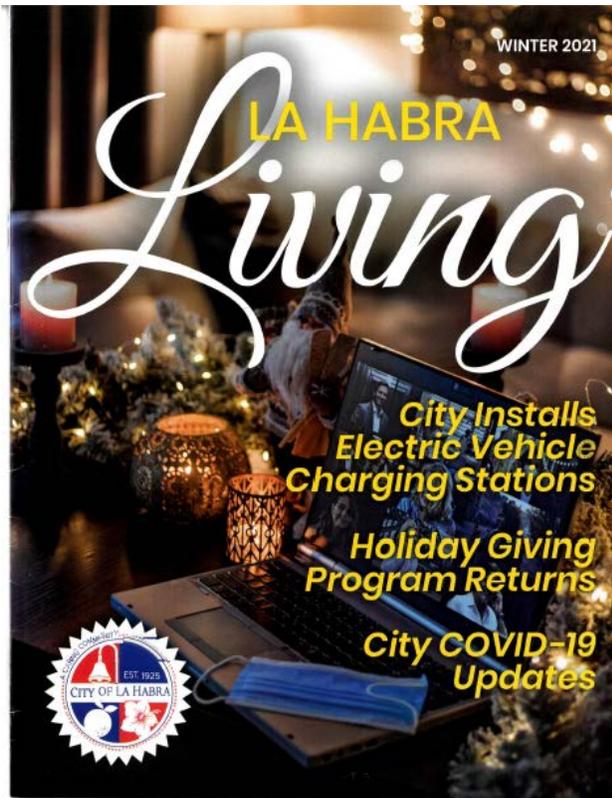
## **PROBLEMS ENCOUNTERED**

The only problem encountered was due to COVID. Public Outreach took slightly longer than expected due to government shutdowns. A solution was difficult to determine because this pandemic was unexpected, sudden and had no predicted time frame. Communication to the public via virtual means became a temporary alternative.

## **PHOTOGRAPHS & OUTREACH**

The Public Outreach Plan consisted of five components to reach the public.

\*Advertisement in the City of La Habra Community Services Department Quarterly “La Habra Living” Magazine (photo of cover and article)



CITY NEWS

### Electric Vehicle Charging Stations

In a partnership between the City of La Habra and the South Coast Air Quality Management District (SCAQMD), the use of AB 2766 Discretionary Grant Funds from the Mobile Source Air Pollution Reduction Review Committee (MSARC) Grant, along with M2 Fair Share Funds as a local match, the City of La Habra was able to purchase and install two ChargePoint electric vehicle charging stations in the City Hall Parking Lot.

Groundbreaking for the installation began on June 22, 2020, and both stations were operational by Sept. 1, 2020.

#### Dual-Port AC Level 2 Charger

One charging station is a Dual-Port AC Level 2 Charger. Depending on the vehicle, it normally takes 3-5 hours to add 40 miles of range. The other charging station is a DC Level 3 Fast Charger, which is high power and can take 15-30 minutes to add the same 40 miles of range. The cost to use either charger is \$0.19 per kilowatt hour.



#### The DC Level 3 Fast Charger

Every year, more and more people are choosing to drive electric vehicles. Electric Vehicle Owners will do the vast majority of charging at home and work, but the availability of public charging stations can reduce a driver's concern that they might run out of charge before they reach their destination.

The installation of electric vehicle chargers is a great way to help protect clean air, promote vehicle range confidence, and provide a benefit to residents, employees, and visitors to the City of La Habra.

ChargePoint stations are independently owned and operated. They use a credit system and drivers must first obtain a ChargePoint card. Software on station equipment helps drivers and station owners manage all their electric vehicle charging needs in one place, through their account dashboard. Their mobile app connects drivers on-the-go with access to their account and real-time station availability. At any time, drivers and station owners can call 888-758-4389 for help.



### New Senior Transportation Service

The City recently launched a new senior transportation program, Orange Cab Service, that will enable senior residents 65 years and older to attend medical appointments anywhere in Orange County, also going to Presbyterian Intercommunity Hospital and the SCU Ouch! Clinic, both in Whittier.

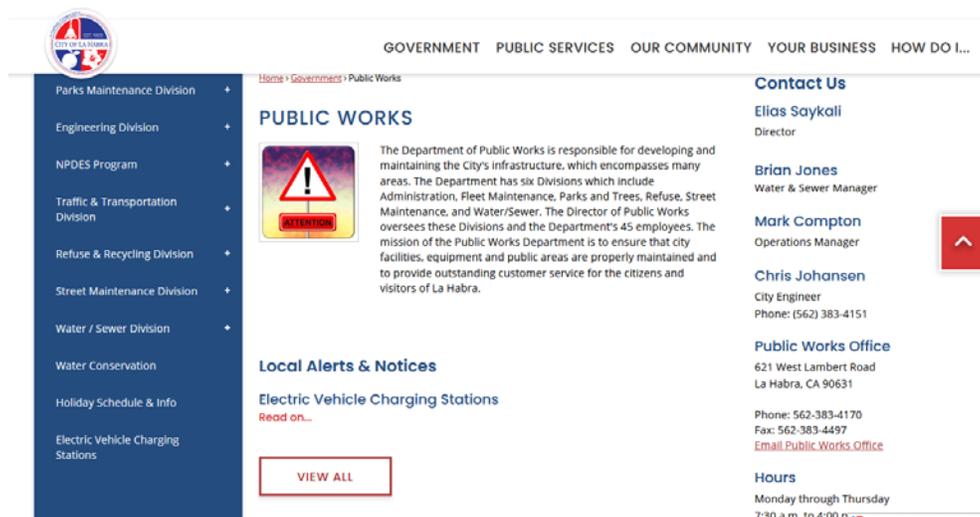
Senior residents may also use the program to grocery shop in La Habra only, and attend City programs. The decision to use a cab service, rather than a shuttle bus, was based on the need for social distancing during the pandemic.

The program is funded by OCTA SMP and AQMD funds. For more information or to apply for the program contact or visit the Community Center, 101 W. La Habra Blvd., 562-383-4200. You may also download the application from the City's website, [www.lahabra.ca.gov](http://www.lahabra.ca.gov). Applicants must provide proof of residency and age when submitting their application.

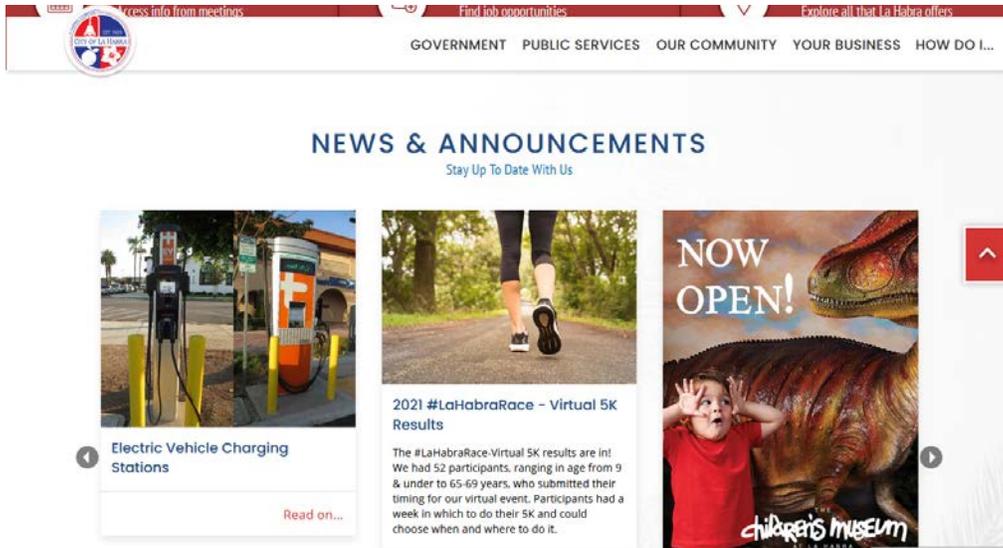


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\*Advertisement on the City of La Habra website, under the Public Works Main Page (photo of screenshot)



\*Advertisement on the City of La Habra website, under the “News & Announcements” section of the City homepage, with a direct link to the article on the Public Works Main Page (photo of screenshot)



\*Advertisement on the City of La Habra social media platforms of Facebook and Twitter (photos of screenshots and links to post)



Log In  
# Explore  
Settings



\*Advertisement included in the Mayor’s Community Calendar that is presented at the end of the City Council Meeting (copy of PowerPoint Presentation)

**Community Calendar**

*Electric Vehicle Charging Stations*

**Electric Vehicle Charging Stations  
Now Open at City Hall!**

Thanks to a partnership between the City and the South Coast Air Quality Management District, two new charging stations for electric vehicles are available for use at City Hall.

Electric vehicle charging stations are a great way to protect our clean air and provide mobility for residents and visitors to City Hall.

For more information, please call the Engineering Division at 562-383-4151.

## SUMMARY AND CONCLUSIONS

The groundbreaking for the installation of electric vehicle charging stations in the La Habra City Hall parking lot began on June 22, 2020 and, both stations were fully operational by September 1, 2020. One charging station is a Dual-Port AC Level 2 Charger. Drivers that utilize this charging station can add about 40 miles of range in about 3-5 hours of charging. The other charging station is a DC Level 3 Fast Charger. Drivers that utilize this charging station can add that same 40 miles of range in about 15-30 minutes. The cost to use either type of charger is \$0.19 per kilowatt-hour.

Every year, more and more people are choosing to drive electric vehicles. Electric Vehicle Owners will do the vast majority of charging at home or work, but the availability of public charging stations can significantly reduce a driver’s “range anxiety” (the concern they might run out of charge before they reach their destination). Installing electric vehicle chargers is a great way to help protect clean air, promote range confidence, as well as provide a benefit to the residents, employees, visitors and patrons of the City of La Habra.

Analyzing the data provided by ChargePoint, there is an average of 23 unique drivers a month that range in number of monthly sessions that started at about 35 in a month, to a 2021 average of 112 a month. This may be due in part to our completion of the Public Outreach Components of this project. According to our reports from ChargePoint, as of the date of this final report, our charging stations have avoided 2,898 kg of greenhouse gas emissions – that is like planting 74 trees and letting them grow for 10 years!