

## **APPENDIX D**

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Appendix D – Energy Consumption Analysis

**Proposed Project  
Total Construction-Related  
and Operational  
Gasoline Usage**

<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>	<b>Total Gallons of Fuel Consumed</b>
Project Construction	11320	11320000	10.15	1,115,271
	Per Climate Registry Equation 13e		Per Climate Registry Equation 13e	
	Per CalEEMod Output Files.			

**Total Gallons Consumed During Project Construction: 1,115,271**

**Notes:**

Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.

**Sources:**

<sup>1</sup>ECORP Consulting, 2020.

<sup>2</sup>Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1.* January 2016.  
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

**Total Gallons During Project Operations<sup>3</sup>**

<b>Area</b>	<b>Sub-Area</b>	<b>Cal. Year</b>	<b>Season</b>	<b>Veh_tech</b>	<b>EMFAC 2011 Category</b>	<b>Fuel_GAS</b>	<b>Daily Total</b>	<b>ANNUAL TOTAL</b>
Sub-Areas	San Bernardino	2024	Annual	All Vehicles	All Vehicles <sup>4</sup>	0.708699	708.699	<b>258,675.1</b>

**Sources:**

<sup>3</sup>Californai Air Resource Board. 2017. EMFAC2017 Mobile Emissions Model.

**Notes:**

<sup>4</sup>Excluding Heavy-Duty Highway Trucks, T6 Agricultural Truck, T6 Instate Construction (heavy and small), T7 Agricultural Truck, T7 CAIRP Construction, T7 Single Construction, T7 Tractor Truck, and T7 Tractor Construction