

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

Construction

Table 1. Construction Year One			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	257	257,000	10.15
Total Gallons Consumed During Construction Year One:			25,320

Table 2. Construction Year Two			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	1089	1,089,000	10.15
Total Gallons Consumed During Construction Year Two:			107,291

Table 3. Construction Year Three			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	568	568,000	10.15
Total Gallons Consumed During Construction Year Three:			55,961

Table 4. Construction Year Four			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	251	251,000	10.15
Total Gallons Consumed During Construction Year Four:			24,729

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Sources:

¹ECORP Consulting. 2022. Air Quality and Greenhouse Gas Emissions Assessment: Grace Church Remodel & Giffin Senior Living Facility

²Climate 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>

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Operations

Table 5. Average Miles per Gallon in Orange County in 2021 ³								
Area	Sub-Area	Cal. Year	Season	Veh_tech	EMFAC 2021 Category	Total Onroad Vehicle Gallons Consumed in Orange County in 2021	Total Onroad Vehicle Miles Traveled in Orange County in 2021	Total Passenger Vehicle Miles per Gallon in Orange County in 2021
Sub-Areas	Orange County	2021	Annual	All Vehicles	All Vehicles	1,350,661,000	30,470,689,307	22.56
Sources: ³ California Air Resource Board. 2021. EMFAC2021 Mobile Emissions Model.								

Table 6. Total Gallons During Project Operations				
Project Onroad Vehicle Daily Trips ³	Estimated Miles per Trip ⁴	Project Onroad Vehicle Daily Miles Traveled	Project Onroad Vehicle Daily Fuel Consumption	Project Onroad Vehicle Annual Fuel Consumption
289	10.57	3,054.73	135.41	49,423
Sources: ³ RK Engineering Group, 2021; ⁴ CalEEMod 2020.4.0				