

Appendix 4.6-A – Fuel Use Calculations

Gates 500kV Dynamic Project - Project Fuel Use Calculations

Project Construction

Fuel Usage (gallons) = CO2 emission (kg) / fuel combustion rate (kg/gallon)

Diesel Emissions

off road equipment	932.2325 MT
onroad (haul & vendor trips)	138.316 MT
Total Diesel Emissions	1070.5485 MT
kg/MT	1000
Total CO2 Emissions (kg)	1070548.5 kg

Diesel fuel combustion rate 10.21 kg/gallon

Diesel fuel consumption 104853 gallons

Gasoline Emissions

Worker Trips	95.6965 MT
kg/MT	1000
Total Emissions (kg)	95696.5 kg

Gasoline combustion rate 8.78 kg/gallon

Gasoline consumption 10899 gallons

Notes

Combustion rates taken from The Climate Registry 2020 default emission factors (Table 2.1).

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Project Operations

Fuel Usage (gallons) = CO2 emission (kg) / fuel combustion rate (kg/gallon)

<u>Diesel Emissions</u>	
off road equipment	0 MT
onroad (haul & vendor trips)	0 MT
Total Diesel Emissions	0 MT
kg/MT	1000
Total CO2 Emissions (kg)	0 kg

Diesel fuel combustion rate 10.21 kg/gallon

Diesel fuel consumption 0 gallons

<u>Gasoline Emissions</u>	
Worker Trips	4.1871 MT
kg/MT	1000
Total Emissions (kg)	4187.1 kg

Gasoline combustion rate 8.78 kg/gallon

Gasoline consumption 477 gallons

Notes

Combustion rates taken from The Climate Registry 2020 default emission factors (Table 2.1).