

**Table 1 – Total Construction-Related Fuel Consumption**

**EMWD Water Tank Project**

<b>Fuel</b>	<b>Consumption</b>	
<b>Diesel</b>		
On-Road Construction Trips <sup>1</sup>	5,155	Gallons
Off-Road Construction Equipment <sup>2</sup>	15,753	Gallons
<b>Diesel Total</b>	<b>20,908</b>	<b>Gallons</b>
<b>Gasoline</b>		
On-Road Construction Trips <sup>1</sup>	6,224	Gallons
Off-Road Construction Equipment <sup>3</sup>	-	Gallons
<b>Gasoline Total</b>	<b>6,224</b>	<b>Gallons</b>

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2020 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for Riverside County. See Table 2 for calculation details.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (HP)-hour, based on SCAQMD CEQA Air Quality Handbook, Table A9-3E.
3. All emissions from off-road construction equipment were assumed to be diesel.

**Table 2 – On-Road Construction Trip Estimates**

**EMWD Water Tank Project**

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage <sup>1</sup>	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker <sup>2,3</sup>	11,665	14.7	171,476	26.9	Gasoline	6,224
Vendor <sup>4</sup>	5,020	6.9	34,638	8.7	Diesel	4,172
Hauling <sup>5</sup>	6,722	1	6,722	6.8	Diesel	983

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (See Air Quality/GHG Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for 2020 in Riverside County.
2. Worker trips were assumed to be 100% gasoline powered vehicles.
3. Per CalEEMod, worker Trips were assumed to be 50% LDA, 25% LDT1, and 25% LDT2.
4. Vendor trips were assumed to be 50% MHDT and 50% HHDT, split evenly between the MHDT and HHDT construction categories.
5. Per CalEEMod, hauling trips were assumed to be 100% HHDT.