

Existing Annual VMT:

0

Fuel

Fleet Mix	auto	91%	0	gas (mpg)	23.68	0.00
	other	9%	0	diesel (mpg)	9.43	0.00
0.00						

Project Annual VMT:

2,554,493

Fleet Mix	auto	91%	2,324,589	gas (mpg)	23.68	98,125.31
	other	9%	229,904	diesel (mpg)	9.43	24,380.10
122,505.41						

Worker Fuel (Gasoline, on-road)

phase	trips	length (miles)	Days	total Miles	MPG	Gallons
Demolition	13	14.7	44	8,408	23.68	355.08
Site Preparation	8	14.7	43	5,057	23.68	213.55
Grading	8	14.7	86	10,114	23.68	427.09
Building Construction	212	14.7	349	1,087,624	23.68	45,930.05
Architectural Coating	42	14.7	86	53,096	23.68	2,242.25
						49,168.02

Vender Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	0	6.9	44	0	9.43	0.00
Site Preparation	0	6.9	43	0	9.43	0.00
Grading	0	6.9	86	0	9.43	0.00
Building Construction	52	6.9	349	125,221	9.43	13,279.02
Architectural Coating	0	6.9	86	0	9.43	0.00
						13,279.02

Haul Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	91	40	44	160,160	9.43	16,984.09
Site Preparation	0	20	43	0	9.43	0.00
Grading	5875	40	86	20,210,000	9.43	2,143,160.13
Building Construction	0	20	349	0	9.43	0.00
Architectural Coating	0	20	86	0	9.43	0.00
						2,160,144.22

Total On-Road Gas 49,168.02

Total On-Road Diesel 2,173,423.24

Construction Equipment (Diesel, off-road)

Phase	Equipment	Units	Hours	HP	Load Factor	Ave. Daily Load Factor	Days	HP Hours
Demolition	concrete/Industrial Saws	1	8	81	0.73	0.6	44	12,488.26
	Rubber Tired Dozers	1	8	247	0.4	0.6	44	20,866.56
	Tractors/Loaders/Backhoes	3	8	97	0.37	0.6	44	7,579.97
Site Preparation	Graders	1	8	187	0.41	0.6	43	15,824.69
	tractors/Loaders/Backhoes	1	8	97	0.37	0.6	43	7,407.70
Grading	rubber Tired Dozers	1	7	247	0.4	0.6	43	17,843.28
	Rubber Tired Dozers	1	6	247	0.4	0.6	86	30,588.48
	Graders	1	6	187	0.41	0.6	86	23,737.03
	Tractors/Loaders/Backhoes	1	7	97	0.37	0.6	86	12,963.47
Building Construction	Generator Sets	1	8	84	0.74	0.6	349	104,130.43
	cranes	1	6	231	0.29	0.6	349	84,166.24
	forklifts	1	6	89	0.2	0.6	349	22,363.92
	tractors/Loaders/Backhoes	1	6	97	0.37	0.6	349	45,092.20
	welders	3	8	46	0.45	0.6	349	34,676.64
Architectural Coating	Air Compressors	1	6	78	0.48	0.6	86	11,591.42
Total								451,320.28

2,195,989.26 Total Diesel
2,245,157.28 Total fuel

Fuel Usage 22,566.01

HP = horsepower. Gallons of diesel fuel per HP-hour = 0.05.

Equipment assumptions are provided in the CalEEMod output files for the Project and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Water Usage for fugitive dust control during construction

Water application rate = 3,020 gallons/acre/day

Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity).

Grading 86 days x .114 acres x 3,020 gallons = 296,081 gallons x 0.009727 = 2,880 kWhr

Diesel MPG Source: EMFAC2017 (VMT/Fuel Consumption)
Gasoline MPG Source: EMFAC2017 (VMT/Fuel Consumption)

Net Project Annual VMT: 2,554,493

Fleet Mix	auto	91%	2,324,589	gas (mpg)	23.68
	other	9%	229,904	diesel (mpg)	9.43