

Existing Annual VMT:		64,657					Fuel
Fleet Mix	auto	91%	58,838	gas (mpg)	23.09	2,548.20	
	other	9%	5,819	diesel (mpg)	8.05	722.87	
							3,271.07

Project Annual VMT:		237,771					
Fleet Mix	auto	91%	216,372	gas (mpg)	23.09	9,370.79	
	other	9%	21,399	diesel (mpg)	8.05	2,658.31	
							12,029.10

Worker Fuel (Gasoline, on-road)						
phase	trips	length (miles)	Days	total Miles	MPG	Gallons
Demolition	10	18.5	20	3,700	23.09	160.24
Site Preparation	5	18.5	6	555	23.09	24.04
Grading	7.5	18.5	10	1,388	23.09	60.09
Building Construction	43.9	18.5	310	251,767	23.09	10,903.70
Architectural Coating	8.79	18.5	64	10,407	23.09	450.73
Paving	17.5	18.5	10	3,238	23.09	140.21
						11,739.02

Vender Fuel (Diesel, on-road)						
phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	0	10.2	20	0	8.05	0.00
Site Preparation	0	10.2	6	0	8.05	0.00
Grading	0	10.2	10	0	8.05	0.00
Building Construction	17.1	10.2	310	54,070	8.05	6,716.80
Architectural Coating	0	10.2	64	0	8.05	0.00
Paving	0	10.2	10	0	8.05	0.00
						6,716.80

Haul Fuel (Diesel, on-road)						
phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	7.25	20	20	2,900	8.05	360.25
Site Preparation	0	20	6	0	8.05	0.00
Grading	18.8	20	10	3,760	8.05	467.08
Building Construction	0	20	310	0	8.05	0.00
Architectural Coating	0	0	64	0	8.05	0.00
Paving	0	0	10	0	8.05	0.00
						827.33

Total On-Road Gas						11,739.02
Total On-Road Diesel						7,544.12

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	33	0.73	0.6	20	2,312.64	
	Rubber Tired Dozers	1	1	367	0.4	0.6	20	1,761.60	
	Tractors/Loaders/Backhoes	2	6	84	0.37	0.6	20	2,237.76	
Site Preparation	Graders	1	8	148	0.41	0.6	6	1,747.58	
	tractors/Loaders/Backhoes	1	8	84	0.37	0.6	6	895.10	
Grading	Graders	1	6	247	0.4	0.6	10	3,556.80	
	Rubber Tired Dozers	1	6	148	0.1	0.6	10	532.80	
	Tractors/Loaders/Backhoes	1	7	97	0.37	0.6	10	1,507.38	
Building Construction	cranes	1	4	367	0.29	0.6	310	79,183.92	
	forklifts	2	6	82	0.2	0.6	310	18,302.40	
	Tractors/Loaders/Backhoes	2	8	14	0.74	0.6	310	15,415.68	
Architectural Coating	Air Compressors	1	6	37	0.48	0.6	64	4,091.90	
Paving	Pavers	1	7	81	0.42	0.6	10	1,428.84	
	Rollers	1	7	36	0.38	0.6	10	574.56	
	Tractors/Loaders/Backhoes	1	7	84	0.37	0.6	10	1,305.36	
Total									134,854.33

14,286.84 Total Diesel
26,025.86 Total fuel

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 10 days x 0.74 acres x 3,020 gallons = 729,511.2 gallons x 0.009727 = 7,095.95 kWhr

7.4
22348
217.378996

Fuel Usage 6,742.72