

**APPENDIX I: ENERGY CONSUMPTION WORKSHEETS**



**Olympic and Hill Project  
Operational Fuel Calculations**

Land Use	Units	Average Daily Trip Rate			Annual VMT
		Weekday	Sat	Sunday	
Apartments (High Rise)	700 DU	2852.00	2870.00	2107.00	10,577,827
Enclosed Parking (with Elevator)	1,075 spaces	0.00	0.00	0.00	--
Quality Restaurant	8K	453.00	475.28	363.44	1,468,519
Retail (strip mall)	7K	87.00	82.46	40.11	274,750
	<b>TOTAL</b>	<b>3,392</b>	<b>3,428</b>	<b>2510.55</b>	<b>12,321,095</b>

Fleet Mix	
LDA	0.549559
LDT1	0.042893
LDT2	0.201564
MDV	0.118533
LHD1	0.015569
LHD2	0.005846
MHD	0.021394
HHD	0.034255
OBUS	0.002099
UBUS	0.001828
MCY	0.004855
SBUS	0.000709
MH	0.000896

	Fleet Factor	VMT	Fuel (gallons)
<b>Diesel</b>	0.06	739,265.70	<b>117,905.22</b>
<b>Gas</b>	0.94	11,581,829.30	<b>408,530.13</b>
		<b>12,321,095.00</b>	

Notes: Assumes an average fuel efficiency of 28.35 miles per gallon (mpg) for gasoline and 6.27 mpg for diesel per Table 7, Statewide Vehicle Fuel Economy Miles Per Gallon, 2007 California Motor Vehicle Stock Travel and Fuel Forecast (May 2008).



**Construction Worker and Vendor Gasoline Consumption**

Phase	Daily Trips		Days	Total Trips		Trip Length		Ave. Daily Factor	Gasoline Usage (gallons)	Diesel Usage (gallons)
	Worker	Vendor		Worker	Vendor	Worker	Vendor			
Site Preparation	5	10	5	25	50	14.7	6.9	0.6	8	48
Grading	13	0	146	1898	0	14.7	6.9	0.6	16,740	-
Building Construction	250	100	400	100000	40000	14.7	6.9	0.6	887,841	382,653
Architectural Coatings	138	50	96	13248	4800	14.7	6.9	0.6	117,548	22,959
Paving	13	25	21	273	525	14.7	6.9	0.6	2,485	1,256
	419	185	668	115444	45375				<b>1,024,622</b>	<b>406,916</b>

Notes: Assumes an average fuel efficiency of 28.35 miles per gallon (mpg) for gasoline and 6.27 mpg for diesel per Table 7, Statewide Vehicle Fuel Economy Miles Per Gallon, 2007 California Motor Vehicle Stock Travel and Fuel Forecast (May 2008).

**Haul Truck Diesel Consumption**

Phase	Haul Trips	Days	Haul Trips	Trip Length	Diesel Usage (Gallons)
Site Preparation	28	5	142	24	543
Grading	202	146	29433	24	112,644
	230	151	29575		<b>113,188</b>

Notes: Assumes an average fuel efficiency of 28.35 miles per gallon (mpg) for gasoline and 6.27 mpg for diesel per Table 7, Statewide Vehicle Fuel Economy Miles Per Gallon, 2007 California Motor Vehicle Stock Travel and Fuel Forecast (May 2008).