

APPENDIX H

Utility Demand Calculations

Projected Electrical Demand for Verdugo Gardens Project

Use	Area/Size	Rate ¹	Unit	Demand (kW/year)	Demand (kW/day)
Residential	287 units	5,626.5	kW-hr/unit/year	1,614,806	184.3
Retail/Commercial	3,236 square feet	13.55	kW-hr/sq.ft./year	43,848	5.6
Total in Kilowatts				1,658,654	189.9 kW

Source: Impact Sciences, Inc January 2008.

¹ Consumption factors derived from SCAQMD CEQA Air Quality Handbook, 1993.

² kW-hr/year divided by 8,760 hours (365 days per year X 24 hours per day).

Cumulaitve Electrical Demand

Use	Area/Size	Rate ¹	Unit	Demand (kW/year)	Demand (kW/day)
Residential	2,213 units	5,626.5	kW-hr/unit/year	12,449,231	1,421.1
Office	358,981 sq.ft.	12.95	kW-hr/sq.ft./year	4,648,803.9	530.6
Hotel	574 units	9.95	kW-hr/unit/year	571,130	65.1
Banquet	55,500 sq.ft.	10.50	kW-hr/sq.ft./year	582,750	66.5
Cinema	70,000 sq.ft.	10.50	kW-hr/sq.ft./year	735,000	83.9
Medical	295,271 sq.ft.	21.70	kW-hr/sq.ft./year	6,407,380.7	731.4
Retail/Commercial	548,489 feet	13.55	kW-hr/sq.ft./year	7,432,025.9	848.4
Industrial	5,308 sq.ft.	10.50	kW-hr/sq.ft./year	55,734	6.4
Community Center	10,600 sq.ft	10.50	kW-hr/sq.ft./year	111,300	12.7
Total in Kilowatts				32,987,532	3,766.1 kW

Source: Impact Sciences, Inc January 2008.

¹ Consumption factors derived from SCAQMD CEQA Air Quality Handbook, 1993.

² kW-hr/year divided by 8,760 hours (365 days per year X 24 hours per day).

Projected Verdugo Gardens Natural Gas Demand

Use	Area/Size	Rate ¹	Unit	Demand (cubic feet/month)	Demand (cubic feet/year)
Residential	287 units	6,665.0	cubic feet/unit/month	1,912,855	22,954,260
Retail/Commercial	3,236 square feet	2.9	cubic feet/square feet/month	9,384	112,612
Total in cubic feet				1,922,239	23,066,872

Source: Impact Sciences, Inc January 2008.

¹ Consumption factors derived from SCAQMD CEQA Air Quality Handbook, 1993.

Cumulative Natural Gas Demand

Use	Area/Size	Rate ¹	Unit	Demand (cubic feet/month)	Demand (cubic feet/year)
Residential	2,213 units	6,665.0	cubic feet/unit/month	14,749,645	176,995,740
Office	358,981 sq.ft.	2.0	cubic feet/sq.ft./month	717,962	8,615,544
Hotel	574 units	4.8	cubic feet/sq.ft./month	255,091	3,061,094
Banquet	55,500 sq.ft.	2.9	cubic feet/sq.ft./month	160,950	1,931,400
Cinema	70,000 sq.ft.	2.9	cubic feet/sq.ft./month	203,000	2,436,000
Medical	295,271 sq.ft.	2.9	cubic feet/sq.ft./month	856,286	10,275,430
Retail/Commercial	548,489 sq.ft	2.9	cubic feet/sq.ft./month	1,590,618	19,087,417
Industrial	5,308 sq.ft.	241,611	cubic feet/cust/month	241,611	2,899,332
Community Center	10,600 sq.ft	2.9	cubic feet/sq.ft./month	30,740	368,880
Total in cubic feet				18,805,903	225,670,0830

Source: Impact Sciences, Inc January 2008.
