

Appendix F

Energy Calculations

District NoHo

Draft EIR

Appendix F

Energy Analysis Spreadsheets

- Appendix I: Energy Analysis
 - Energy Consumption Summary
 - Construction Energy Usage
 - Construction Electricity Consumption
 - Off-Road Equipment
 - On-Road Fuel Usage Rates
 - On-Road Vehicles
 - Construction Water Usage
 - Operational Energy Usage
 - Existing
 - Buildout without Project Design Features
 - Buildout with Project Design Features
 - Peak Electricity Demand Calculations
 - Total County Fuel Consumption

District NoHo

Summary of Energy Use During Construction

Electricity	
Water Consumption	41,478 kWh
Temporary Power (lighting, tools)	136,080 kWh
Total:	177,558 kWh
Gasoline	
On Road	482,116 Gallons
Off Road	0 Gallons
Total:	482,116 Gallons
Diesel	
On Road	430,192 Gallons
Off Road	931,723 Gallons
Total:	1,361,915 Gallons
Total Mobile	1,844,031

Summary of Energy Use During Operations

	Baseline (Buildout)	Buildout Without Project Features/MXD	Buildout With Project Features/MXD		Percent Reduction due to Project Features	Project Without Project Features - Baseline (Buildout)	Project (Buildout) - Baseline (Buildout)
Electricity							
Electricity (building)	694,235	20,189,007	18,536,517	kWh/year	-8%	19,494,772	17,842,282
Electricity (water)	150,271	955,691	764,553	kWh/year	-20%	805,421	614,283
EV Chargers		476,621	476,621	kWh/year			
Electricity Total	844,506	21,621,319	19,777,691	kWh/year	-9%	20,776,813	18,933,185
Natural Gas							
Natural Gas (building)	433,636	38,537,201	36,702,096				36,268,460
Fireplaces		3,091,500	160,714				160,714
Natural Gas Total	433,636	39,646,382	36,862,810	cu ft/year	-7%	39,212,745	36,429,174
Mobile							
Gasoline	0	1,637,416	955,733	Gallons/year	-42%	1,637,416	955,733
Diesel	0	361,849	211,206	Gallons/year	-42%	361,849	211,206
Mobile Total	0	1,999,265	1,166,939	Gallons/year	-42%	1,999,265	1,166,939

Construction Electricity Usage

Construction Electricity Usage

Caterpillar 40-C4.4 Generator^a

Peak Power Rating - Prime (kW)	36
Typical Load	70%
Average Output (kW)	25.2
Hours per Day	2
Average Daily Output (kWh)	50.4
Building Construction Phase Duration (days)	2,700
Total Construction (kWh)	136,080
Total Construction (MWh)	136.1

^a<https://www.albancat.com/content/uploads/2014/06/40-C4.4-Spec-Sheet.pdf>

Calculation of Diesel Usage During Construction (Offroad Equipment):

Phase Name	Off Road Equipment Type	Units	Hours	HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage
West Lot Demolition	Air Compressors	1	8	78	0.48	0.6	41	368
West Lot Demolition	Concrete/Industrial Saws	2	4	81	0.73	0.6	41	582
West Lot Demolition	Cranes	1	10	231	0.29	0.6	41	824
West Lot Demolition	Excavators	1	8	158	0.38	0.6	41	591
West Lot Demolition	Forklifts	1	8	89	0.2	0.6	41	175
West Lot Demolition	Generator Sets	1	8	84	0.74	0.6	41	612
West Lot Demolition	Other Construction Equipment	1	8	172	0.42	0.6	41	711
West Lot Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	41	394
West Lot Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	41	0
West Lot Demolition	Scrapers	1	8	367	0.48	0.6	41	1,733
West Lot Demolition	Signal Boards	1	8	6	0.82	0.6	41	48
West Lot Demolition	Skid Steer Loaders	1	8	65	0.37	0.6	41	237
East Lot Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	21	25
East Lot Grading	Concrete/Industrial Saws	1	4	81	0.73	0.6	21	149
East Lot Grading	Excavators	0	8	158	0.38	0.6	21	0
East Lot Grading	Forklifts	1	8	89	0.2	0.6	21	90
East Lot Grading	Generator Sets	1	8	84	0.74	0.6	21	313
East Lot Grading	Graders	0	8	187	0.41	0.6	21	0
East Lot Grading	Other Construction Equipment	1	8	172	0.42	0.6	21	364
East Lot Grading	Paving Equipment	1	8	132	0.36	0.6	21	240
East Lot Grading	Rollers	1	8	80	0.38	0.6	21	153
East Lot Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	21	202
East Lot Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	21	0
East Lot Grading	Scrapers	1	8	367	0.48	0.6	21	888
East Lot Grading	Skid Steer Loaders	1	8	65	0.37	0.6	21	121
East Lot Grading	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	21	0
East Lot Grading	Welders	1	8	46	0.45	0.6	21	104
East Lot Building Construction	Aerial Lifts	4	8	63	0.31	0.6	64	1,200
East Lot Building Construction	Air Compressors	1	8	78	0.48	0.6	64	575
East Lot Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	64	77
East Lot Building Construction	Concrete/Industrial Saws	1	4	81	0.73	0.6	64	454
East Lot Building Construction	Cranes	0	7	231	0.29	0.6	64	0
East Lot Building Construction	Generator Sets	1	8	84	0.74	0.6	64	955
East Lot Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	64	0
East Lot Building Construction	Welders	1	8	46	0.45	0.6	64	318
West Lot Grading	Air Compressors	1	8	78	0.48	0.6	44	395
West Lot Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	44	2,334
West Lot Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	44	53
West Lot Grading	Concrete/Industrial Saws	1	4	81	0.73	0.6	44	312
West Lot Grading	Forklifts	1	8	89	0.2	0.6	44	188
West Lot Grading	Generator Sets	1	8	84	0.74	0.6	44	656
West Lot Grading	Graders	0	8	187	0.41	0.6	44	0
West Lot Grading	Other Construction Equipment	1	8	172	0.42	0.6	44	763
West Lot Grading	Pumps	1	8	84	0.74	0.6	44	656
West Lot Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	44	422
West Lot Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	44	0
West Lot Grading	Scrapers	0	8	367	0.48	0.6	44	0
West Lot Grading	Signal Boards	2	8	6	0.82	0.6	44	104
West Lot Grading	Skid Steer Loaders	1	8	65	0.37	0.6	44	254
West Lot Grading	Surfacing Equipment	1	8	263	0.3	0.6	44	833
West Lot Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	44	379
West Lot Grading	Trenchers	1	8	78	0.5	0.6	44	412
West Lot Grading	Welders	1	8	46	0.45	0.6	44	219
Block 0 Demolition	Air Compressors	1	8	78	0.48	0.6	44	395
Block 0 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	44	312
Block 0 Demolition	Excavators	1	8	158	0.38	0.6	44	634
Block 0 Demolition	Forklifts	1	8	89	0.2	0.6	44	188
Block 0 Demolition	Generator Sets	1	8	84	0.74	0.6	44	656
Block 0 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	44	763
Block 0 Demolition	Pavers	0	8	130	0.42	0.6	44	0
Block 0 Demolition	Paving Equipment	0	8	132	0.36	0.6	44	0
Block 0 Demolition	Rollers	0	8	80	0.38	0.6	44	0
Block 0 Demolition	Rubber Tired Dozers	1	8	247	0.4	0.6	44	1,043
Block 0 Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	44	379
Block 0 Demolition	Trenchers	1	8	78	0.5	0.6	44	412
West Lot Foundation	Aerial Lifts	4	8	63	0.31	0.6	87	1,631
West Lot Foundation	Air Compressors	2	8	78	0.48	0.6	87	1,563
West Lot Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	87	105
West Lot Foundation	Concrete/Industrial Saws	1	4	81	0.73	0.6	87	617
West Lot Foundation	Cranes	2	10	231	0.29	0.6	87	3,497
West Lot Foundation	Forklifts	2	8	89	0.2	0.6	87	743
West Lot Foundation	Generator Sets	1	8	84	0.74	0.6	87	1,298
West Lot Foundation	Pumps	1	8	84	0.74	0.6	87	1,298
West Lot Foundation	Rubber Tired Dozers	0	8	247	0.4	0.6	87	0
West Lot Foundation	Signal Boards	2	8	6	0.82	0.6	87	205
West Lot Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	87	502
West Lot Foundation	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	87	0
West Lot Foundation	Welders	1	8	46	0.45	0.6	87	432
Block 0 Grading	Air Compressors	1	8	78	0.48	0.6	109	979
Block 0 Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	109	5,781
Block 0 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	109	132
Block 0 Grading	Concrete/Industrial Saws	2	4	81	0.73	0.6	109	1,547
Block 0 Grading	Excavators	0	8	158	0.38	0.6	109	0
Block 0 Grading	Forklifts	1	8	89	0.2	0.6	109	466
Block 0 Grading	Generator Sets	1	8	84	0.74	0.6	109	1,626
Block 0 Grading	Graders	2	8	187	0.41	0.6	109	4,011
Block 0 Grading	Other Construction Equipment	1	4	172	0.42	0.6	109	945
Block 0 Grading	Pavers	1	8	130	0.42	0.6	109	1,428

Block 0 Grading	Paving Equipment	1	8	132	0.36	0.6	109	1,243
Block 0 Grading	Plate Compactors	1	8	8	0.43	0.6	109	90
Block 0 Grading	Pumps	1	8	84	0.74	0.6	109	1,626
Block 0 Grading	Rollers	1	8	80	0.38	0.6	109	795
Block 0 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	109	0
Block 0 Grading	Scrapers	1	8	367	0.48	0.6	109	4,608
Block 0 Grading	Signal Boards	2	8	6	0.82	0.6	109	257
Block 0 Grading	Surfacing Equipment	1	8	263	0.3	0.6	109	2,064
Block 0 Grading	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	109	0
Block 0 Grading	Trenchers	1	8	78	0.5	0.6	109	1,020
Block 0 Grading	Welders	1	8	46	0.45	0.6	109	542
West Lot Building Construction	Aerial Lifts	4	8	63	0.31	0.6	43	806
West Lot Building Construction	Air Compressors	2	8	78	0.48	0.6	43	773
West Lot Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	43	52
West Lot Building Construction	Concrete/Industrial Saws	1	4	81	0.73	0.6	43	305
West Lot Building Construction	Cranes	2	10	231	0.29	0.6	43	1,728
West Lot Building Construction	Forklifts	2	8	89	0.2	0.6	43	367
West Lot Building Construction	Generator Sets	1	8	84	0.74	0.6	43	641
West Lot Building Construction	Pumps	1	8	84	0.74	0.6	43	641
West Lot Building Construction	Signal Boards	2	8	6	0.82	0.6	43	102
West Lot Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	43	248
West Lot Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	43	0
West Lot Building Construction	Welders	1	8	46	0.45	0.6	43	214
Block 7 Demolition	Air Compressors	1	8	78	0.48	0.6	21	189
Block 7 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	21	149
Block 7 Demolition	Excavators	1	8	158	0.38	0.6	21	303
Block 7 Demolition	Forklifts	1	8	89	0.2	0.6	21	90
Block 7 Demolition	Generator Sets	1	8	84	0.74	0.6	21	313
Block 7 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	21	364
Block 7 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	21	202
Block 7 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	21	0
Block 7 Demolition	Scrapers	1	8	367	0.48	0.6	21	888
Block 7 Demolition	Trenchers	1	8	78	0.5	0.6	21	197
Block 8 Demolition	Air Compressors	1	8	78	0.48	0.6	44	395
Block 8 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	44	312
Block 8 Demolition	Excavators	1	8	158	0.38	0.6	44	634
Block 8 Demolition	Forklifts	1	8	89	0.2	0.6	44	188
Block 8 Demolition	Generator Sets	1	8	84	0.74	0.6	44	656
Block 8 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	44	763
Block 8 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	44	422
Block 8 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	44	0
Block 8 Demolition	Scrapers	1	8	367	0.48	0.6	44	1,860
Block 8 Demolition	Signal Boards	1	8	6	0.82	0.6	44	52
Block 8 Demolition	Trenchers	1	8	78	0.5	0.6	44	412
Block 7 Grading	Air Compressors	1	8	78	0.48	0.6	109	979
Block 7 Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	109	5,781
Block 7 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	109	132
Block 7 Grading	Concrete/Industrial Saws	2	4	81	0.73	0.6	109	1,547
Block 7 Grading	Excavators	2	8	158	0.38	0.6	109	3,141
Block 7 Grading	Forklifts	1	8	89	0.2	0.6	109	466
Block 7 Grading	Generator Sets	1	8	84	0.74	0.6	109	1,626
Block 7 Grading	Graders	0	8	187	0.41	0.6	109	0
Block 7 Grading	Other Construction Equipment	1	8	172	0.42	0.6	109	1,890
Block 7 Grading	Pumps	1	8	84	0.74	0.6	109	1,626
Block 7 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	109	1,046
Block 7 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	109	0
Block 7 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	109	1,912
Block 7 Grading	Scrapers	0	8	367	0.48	0.6	109	0
Block 7 Grading	Signal Boards	2	8	6	0.82	0.6	109	257
Block 7 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	109	629
Block 7 Grading	Surfacing Equipment	1	8	263	0.3	0.6	109	2,064
Block 7 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	109	939
Block 7 Grading	Trenchers	1	8	78	0.5	0.6	109	1,020
Block 7 Grading	Welders	2	8	46	0.45	0.6	109	1,083
West Lot Finishing	Aerial Lifts	4	8	63	0.31	0.6	44	825
West Lot Finishing	Air Compressors	0	6	78	0.48	0.6	44	0
West Lot Finishing	Concrete/Industrial Saws	1	4	81	0.73	0.6	44	312
West Lot Finishing	Cranes	0	7	231	0.29	0.6	44	0
West Lot Finishing	Forklifts	2	8	89	0.2	0.6	44	376
West Lot Finishing	Generator Sets	0	8	84	0.74	0.6	44	0
West Lot Finishing	Pavers	1	8	130	0.42	0.6	44	577
West Lot Finishing	Paving Equipment	1	8	132	0.36	0.6	44	502
West Lot Finishing	Plate Compactors	1	8	8	0.43	0.6	44	36
West Lot Finishing	Pumps	1	8	84	0.74	0.6	44	656
West Lot Finishing	Rollers	1	8	80	0.38	0.6	44	321
West Lot Finishing	Signal Boards	1	8	6	0.82	0.6	44	52
West Lot Finishing	Surfacing Equipment	1	8	263	0.3	0.6	44	833
West Lot Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	44	0
West Lot Finishing	Trenchers	1	8	78	0.5	0.6	44	412
West Lot Finishing	Welders	0	8	46	0.45	0.6	44	0
Block 0 Building Construction	Aerial Lifts	1	8	63	0.31	0.6	173	811
Block 0 Building Construction	Air Compressors	1	8	78	0.48	0.6	173	1,555
Block 0 Building Construction	Bore/Drill Rigs	1	8	221	0.5	0.6	173	4,588
Block 0 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	173	209
Block 0 Building Construction	Concrete/Industrial Saws	1	4	81	0.73	0.6	173	1,228
Block 0 Building Construction	Cranes	2	10	231	0.29	0.6	173	6,954
Block 0 Building Construction	Forklifts	1	8	89	0.2	0.6	173	739
Block 0 Building Construction	Generator Sets	0	8	84	0.74	0.6	173	0
Block 0 Building Construction	Other Construction Equipment	1	4	172	0.42	0.6	173	1,500
Block 0 Building Construction	Plate Compactors	1	8	8	0.43	0.6	173	143

Block 0 Building Construction	Pumps	1	8	84	0.74	0.6	173	2,581
Block 0 Building Construction	Signal Boards	1	8	6	0.82	0.6	173	204
Block 0 Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	173	1,490
Block 0 Building Construction	Welders	1	8	46	0.45	0.6	173	859
Block 8 Grading	Air Compressors	1	8	78	0.48	0.6	130	1,168
Block 8 Grading	Bore/Drill Rigs	3	8	221	0.5	0.6	130	10,343
Block 8 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	130	157
Block 8 Grading	Concrete/Industrial Saws	3	4	81	0.73	0.6	130	2,767
Block 8 Grading	Excavators	3	8	158	0.38	0.6	130	5,620
Block 8 Grading	Forklifts	1	8	89	0.2	0.6	130	555
Block 8 Grading	Generator Sets	1	8	84	0.74	0.6	130	1,939
Block 8 Grading	Graders	0	8	187	0.41	0.6	130	0
Block 8 Grading	Other Construction Equipment	1	8	172	0.42	0.6	130	2,254
Block 8 Grading	Pumps	1	8	84	0.74	0.6	130	1,939
Block 8 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	130	0
Block 8 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	130	2,280
Block 8 Grading	Scrapers	0	8	367	0.48	0.6	130	0
Block 8 Grading	Signal Boards	2	8	6	0.82	0.6	130	307
Block 8 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	130	750
Block 8 Grading	Surfacing Equipment	1	8	263	0.3	0.6	130	2,462
Block 8 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	130	1,120
Block 8 Grading	Trenchers	1	8	78	0.5	0.6	130	1,217
Block 8 Grading	Welders	4	8	46	0.45	0.6	130	2,583
Block 0&7 Finishing	Aerial Lifts	0	8	63	0.31	0.6	260	0
Block 0&7 Finishing	Air Compressors	0	6	78	0.48	0.6	260	0
Block 0&7 Finishing	Concrete/Industrial Saws	0	4	81	0.73	0.6	260	0
Block 0&7 Finishing	Cranes	0	10	231	0.29	0.6	260	0
Block 0&7 Finishing	Forklifts	0	8	89	0.2	0.6	260	0
Block 0&7 Finishing	Other Construction Equipment	0	4	172	0.42	0.6	260	0
Block 0&7 Finishing	Pavers	0	8	130	0.42	0.6	260	0
Block 0&7 Finishing	Paving Equipment	0	8	132	0.36	0.6	260	0
Block 0&7 Finishing	Plate Compactors	0	8	8	0.43	0.6	260	0
Block 0&7 Finishing	Pumps	0	8	84	0.74	0.6	260	0
Block 0&7 Finishing	Rollers	0	8	80	0.38	0.6	260	0
Block 0&7 Finishing	Signal Boards	0	8	6	0.82	0.6	260	0
Block 0&7 Finishing	Surfacing Equipment	0	8	263	0.3	0.6	260	0
Block 0&7 Finishing	Trenchers	0	8	78	0.5	0.6	260	0
Block 0&7 Finishing	Welders	0	8	46	0.45	0.6	260	0
Block 7 Foundation	Aerial Lifts	3	8	63	0.31	0.6	65	914
Block 7 Foundation	Air Compressors	2	8	78	0.48	0.6	65	1,168
Block 7 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	65	79
Block 7 Foundation	Concrete/Industrial Saws	2	4	81	0.73	0.6	65	922
Block 7 Foundation	Cranes	1	10	231	0.29	0.6	65	1,306
Block 7 Foundation	Forklifts	3	8	89	0.2	0.6	65	833
Block 7 Foundation	Generator Sets	1	8	84	0.74	0.6	65	970
Block 7 Foundation	Pumps	1	8	84	0.74	0.6	65	970
Block 7 Foundation	Signal Boards	1	8	6	0.82	0.6	65	77
Block 7 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	65	375
Block 7 Foundation	Welders	3	8	46	0.45	0.6	65	969
Block 8 Foundation	Aerial Lifts	8	8	63	0.31	0.6	87	3,262
Block 8 Foundation	Air Compressors	2	8	78	0.48	0.6	87	1,563
Block 8 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	87	105
Block 8 Foundation	Concrete/Industrial Saws	5	4	81	0.73	0.6	87	3,087
Block 8 Foundation	Cranes	4	10	231	0.29	0.6	87	6,994
Block 8 Foundation	Forklifts	3	8	89	0.2	0.6	87	1,115
Block 8 Foundation	Generator Sets	1	8	84	0.74	0.6	87	1,298
Block 8 Foundation	Pumps	1	8	84	0.74	0.6	87	1,298
Block 8 Foundation	Signal Boards	1	8	6	0.82	0.6	87	103
Block 8 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	87	502
Block 8 Foundation	Welders	10	8	46	0.45	0.6	87	4,322
Block 7 Building Construction	Aerial Lifts	3	8	63	0.31	0.6	130	1,828
Block 7 Building Construction	Air Compressors	2	8	78	0.48	0.6	130	2,336
Block 7 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	130	157
Block 7 Building Construction	Concrete/Industrial Saws	2	4	81	0.73	0.6	130	1,845
Block 7 Building Construction	Cranes	1	10	231	0.29	0.6	130	2,613
Block 7 Building Construction	Forklifts	3	8	89	0.2	0.6	130	1,666
Block 7 Building Construction	Generator Sets	1	8	84	0.74	0.6	130	1,939
Block 7 Building Construction	Pumps	1	8	84	0.74	0.6	130	1,939
Block 7 Building Construction	Signal Boards	1	8	6	0.82	0.6	130	154
Block 7 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	130	750
Block 7 Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	130	1,120
Block 7 Building Construction	Welders	3	8	46	0.45	0.6	130	1,938
Block 5/6 Demolition	Air Compressors	1	8	78	0.48	0.6	22	198
Block 5/6 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	22	156
Block 5/6 Demolition	Excavators	1	8	158	0.38	0.6	22	317
Block 5/6 Demolition	Forklifts	1	8	89	0.2	0.6	22	94
Block 5/6 Demolition	Generator Sets	1	8	84	0.74	0.6	22	328
Block 5/6 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	22	381
Block 5/6 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	22	211
Block 5/6 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	22	0
Block 5/6 Demolition	Scrapers	1	8	367	0.48	0.6	22	930
Block 5/6 Demolition	Trenchers	1	8	78	0.5	0.6	22	206
Block 8 Building Construction	Aerial Lifts	8	8	63	0.31	0.6	43	1,612
Block 8 Building Construction	Air Compressors	2	8	78	0.48	0.6	43	773
Block 8 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	43	52
Block 8 Building Construction	Concrete/Industrial Saws	5	4	81	0.73	0.6	43	1,526
Block 8 Building Construction	Cranes	4	10	231	0.29	0.6	43	3,457
Block 8 Building Construction	Forklifts	3	8	89	0.2	0.6	43	551
Block 8 Building Construction	Generator Sets	1	8	84	0.74	0.6	43	641
Block 8 Building Construction	Pumps	1	8	84	0.74	0.6	43	641

Block 8 Building Construction	Signal Boards	1	8	6	0.82	0.6	43	51
Block 8 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	43	248
Block 8 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	43	0
Block 8 Building Construction	Welders	10	8	46	0.45	0.6	43	2,136
Block 5/6 Grading	Air Compressors	1	8	78	0.48	0.6	21	189
Block 5/6 Grading	Bore/Drill Rigs	4	8	221	0.5	0.6	21	2,228
Block 5/6 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	21	25
Block 5/6 Grading	Concrete/Industrial Saws	3	4	81	0.73	0.6	21	447
Block 5/6 Grading	Excavators	3	8	158	0.38	0.6	21	908
Block 5/6 Grading	Forklifts	1	8	89	0.2	0.6	21	90
Block 5/6 Grading	Generator Sets	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Graders	0	8	187	0.41	0.6	21	0
Block 5/6 Grading	Other Construction Equipment	1	8	172	0.42	0.6	21	364
Block 5/6 Grading	Pumps	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	21	202
Block 5/6 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	21	0
Block 5/6 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	21	368
Block 5/6 Grading	Scrapers	0	8	367	0.48	0.6	21	0
Block 5/6 Grading	Signal Boards	2	8	6	0.82	0.6	21	50
Block 5/6 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	21	121
Block 5/6 Grading	Surfacing Equipment	1	8	263	0.3	0.6	21	398
Block 5/6 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	21	181
Block 5/6 Grading	Trenchers	1	8	78	0.5	0.6	21	197
Block 5/6 Grading	Welders	3	8	46	0.45	0.6	21	313
Block 5/6 Grading	Air Compressors	1	8	78	0.48	0.6	21	189
Block 5/6 Grading	Bore/Drill Rigs	4	8	221	0.5	0.6	21	2,228
Block 5/6 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	21	25
Block 5/6 Grading	Concrete/Industrial Saws	3	4	81	0.73	0.6	21	447
Block 5/6 Grading	Excavators	3	8	158	0.38	0.6	21	908
Block 5/6 Grading	Forklifts	1	8	89	0.2	0.6	21	90
Block 5/6 Grading	Generator Sets	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Graders	0	8	187	0.41	0.6	21	0
Block 5/6 Grading	Other Construction Equipment	1	8	172	0.42	0.6	21	364
Block 5/6 Grading	Pumps	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	21	202
Block 5/6 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	21	0
Block 5/6 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	21	368
Block 5/6 Grading	Scrapers	0	8	367	0.48	0.6	21	0
Block 5/6 Grading	Signal Boards	2	8	6	0.82	0.6	21	50
Block 5/6 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	21	121
Block 5/6 Grading	Surfacing Equipment	1	8	263	0.3	0.6	21	398
Block 5/6 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	21	181
Block 5/6 Grading	Trenchers	1	8	78	0.5	0.6	21	197
Block 5/6 Grading	Welders	3	8	46	0.45	0.6	21	313
Block 5/6 Grading	Air Compressors	1	8	78	0.48	0.6	21	189
Block 5/6 Grading	Bore/Drill Rigs	4	8	221	0.5	0.6	21	2,228
Block 5/6 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	21	25
Block 5/6 Grading	Concrete/Industrial Saws	3	4	81	0.73	0.6	21	447
Block 5/6 Grading	Excavators	3	8	158	0.38	0.6	21	908
Block 5/6 Grading	Forklifts	1	8	89	0.2	0.6	21	90
Block 5/6 Grading	Generator Sets	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Graders	0	8	187	0.41	0.6	21	0
Block 5/6 Grading	Other Construction Equipment	1	8	172	0.42	0.6	21	364
Block 5/6 Grading	Pumps	1	8	84	0.74	0.6	21	313
Block 5/6 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	21	202
Block 5/6 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	21	0
Block 5/6 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	21	368
Block 5/6 Grading	Scrapers	0	8	367	0.48	0.6	21	0
Block 5/6 Grading	Signal Boards	2	8	6	0.82	0.6	21	50
Block 5/6 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	21	121
Block 5/6 Grading	Surfacing Equipment	1	8	263	0.3	0.6	21	398
Block 5/6 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	21	181
Block 5/6 Grading	Trenchers	1	8	78	0.5	0.6	21	197
Block 5/6 Grading	Welders	3	8	46	0.45	0.6	21	313
Block 7 Finishing	Aerial Lifts	3	8	63	0.31	0.6	196	2,756
Block 7 Finishing	Air Compressors	0	8	78	0.48	0.6	196	0
Block 7 Finishing	Cement and Mortar Mixers	0	8	9	0.56	0.6	196	0
Block 7 Finishing	Concrete/Industrial Saws	1	4	81	0.73	0.6	196	1,391
Block 7 Finishing	Cranes	2	10	231	0.29	0.6	196	7,878
Block 7 Finishing	Forklifts	2	8	89	0.2	0.6	196	1,675
Block 7 Finishing	Generator Sets	1	8	84	0.74	0.6	196	2,924
Block 7 Finishing	Pavers	1	8	130	0.42	0.6	196	2,568
Block 7 Finishing	Paving Equipment	1	8	132	0.36	0.6	196	2,235
Block 7 Finishing	Plate Compactors	1	8	8	0.43	0.6	196	162
Block 7 Finishing	Pumps	1	8	84	0.74	0.6	196	2,924
Block 7 Finishing	Rollers	1	8	80	0.38	0.6	196	1,430
Block 7 Finishing	Signal Boards	1	8	6	0.82	0.6	196	231
Block 7 Finishing	Skid Steer Loaders	1	8	65	0.37	0.6	196	1,131
Block 7 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	196	3,711
Block 7 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	196	0
Block 7 Finishing	Trenchers	1	8	78	0.5	0.6	196	1,835
Block 7 Finishing	Welders	2	8	46	0.45	0.6	196	1,947
Block 8 Building Construction	Aerial Lifts	8	8	63	0.31	0.6	43	1,612
Block 8 Building Construction	Air Compressors	2	8	78	0.48	0.6	43	773
Block 8 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	43	52
Block 8 Building Construction	Concrete/Industrial Saws	5	4	81	0.73	0.6	43	1,526
Block 8 Building Construction	Cranes	4	10	231	0.29	0.6	43	3,457
Block 8 Building Construction	Forklifts	3	8	89	0.2	0.6	43	551
Block 8 Building Construction	Generator Sets	1	8	84	0.74	0.6	43	641
Block 8 Building Construction	Pumps	1	8	84	0.74	0.6	43	641
Block 8 Building Construction	Signal Boards	1	8	6	0.82	0.6	43	51
Block 8 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	43	248
Block 8 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	43	0
Block 8 Building Construction	Welders	10	8	46	0.45	0.6	43	2,136
Block 8 Finishing	Aerial Lifts	5	8	63	0.31	0.6	218	5,109
Block 8 Finishing	Cement and Mortar Mixers	1	8	9	0.56	0.6	218	264
Block 8 Finishing	Concrete/Industrial Saws	1	8	81	0.73	0.6	218	3,094
Block 8 Finishing	Cranes	3	10	231	0.29	0.6	218	13,143
Block 8 Finishing	Forklifts	2	8	89	0.2	0.6	218	1,863
Block 8 Finishing	Generator Sets	1	8	84	0.74	0.6	218	3,252
Block 8 Finishing	Pavers	1	8	130	0.42	0.6	218	2,857
Block 8 Finishing	Paving Equipment	1	8	132	0.36	0.6	218	2,486
Block 8 Finishing	Plate Compactors	1	8	8	0.43	0.6	218	180
Block 8 Finishing	Pumps	1	8	84	0.74	0.6	218	3,252
Block 8 Finishing	Rollers	1	8	80	0.38	0.6	218	1,591
Block 8 Finishing	Signal Boards	1	8	6	0.82	0.6	218	257
Block 8 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	218	4,128
Block 8 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	218	0
Block 8 Finishing	Trenchers	1	8	78	0.5	0.6	218	2,040
Block 8 Finishing	Welders	3	8	46	0.45	0.6	218	3,249

Block 5/6 Foundation	Aerial Lifts	8	8	63	0.31	0.6	130	4,875
Block 5/6 Foundation	Air Compressors	3	8	78	0.48	0.6	130	3,504
Block 5/6 Foundation	Cement and Mortar Mixers	2	8	9	0.56	0.6	130	314
Block 5/6 Foundation	Concrete/Industrial Saws	3	4	81	0.73	0.6	130	2,767
Block 5/6 Foundation	Cranes	5	10	231	0.29	0.6	130	13,063
Block 5/6 Foundation	Forklifts	5	8	89	0.2	0.6	130	2,777
Block 5/6 Foundation	Generator Sets	2	8	84	0.74	0.6	130	3,879
Block 5/6 Foundation	Pumps	1	8	84	0.74	0.6	130	1,939
Block 5/6 Foundation	Signal Boards	1	8	6	0.82	0.6	130	154
Block 5/6 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	130	750
Block 5/6 Foundation	Welders	6	8	46	0.45	0.6	130	3,875
Block 5/6 Building Construction	Aerial Lifts	8	8	63	0.31	0.6	109	4,087
Block 5/6 Building Construction	Air Compressors	3	8	78	0.48	0.6	109	2,938
Block 5/6 Building Construction	Cement and Mortar Mixers	2	8	9	0.56	0.6	109	264
Block 5/6 Building Construction	Concrete/Industrial Saws	3	4	81	0.73	0.6	109	2,320
Block 5/6 Building Construction	Cranes	5	10	231	0.29	0.6	109	10,953
Block 5/6 Building Construction	Forklifts	5	8	89	0.2	0.6	109	2,328
Block 5/6 Building Construction	Generator Sets	2	8	84	0.74	0.6	109	3,252
Block 5/6 Building Construction	Pumps	1	8	84	0.74	0.6	109	1,626
Block 5/6 Building Construction	Signal Boards	1	8	6	0.82	0.6	109	129
Block 5/6 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	109	629
Block 5/6 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	109	0
Block 5/6 Building Construction	Welders	6	8	46	0.45	0.6	109	3,249
Block 5/6 Finishing	Aerial Lifts	6	8	63	0.31	0.6	217	6,103
Block 5/6 Finishing	Air Compressors	1	8	78	0.48	0.6	217	1,950
Block 5/6 Finishing	Cement and Mortar Mixers	1	8	9	0.56	0.6	217	262
Block 5/6 Finishing	Concrete/Industrial Saws	2	4	81	0.73	0.6	217	3,079
Block 5/6 Finishing	Cranes	4	10	231	0.29	0.6	217	17,444
Block 5/6 Finishing	Forklifts	4	8	89	0.2	0.6	217	3,708
Block 5/6 Finishing	Generator Sets	2	8	84	0.74	0.6	217	6,475
Block 5/6 Finishing	Pavers	1	8	130	0.42	0.6	217	2,844
Block 5/6 Finishing	Paving Equipment	1	8	132	0.36	0.6	217	2,475
Block 5/6 Finishing	Plate Compactors	1	8	8	0.43	0.6	217	179
Block 5/6 Finishing	Pumps	1	8	84	0.74	0.6	217	3,237
Block 5/6 Finishing	Rollers	1	8	80	0.38	0.6	217	1,583
Block 5/6 Finishing	Signal Boards	1	8	6	0.82	0.6	217	256
Block 5/6 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	217	4,109
Block 5/6 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	217	0
Block 5/6 Finishing	Trenchers	1	8	78	0.5	0.6	217	2,031
Block 5/6 Finishing	Welders	5	8	46	0.45	0.6	217	5,390
Architectural Coatings	Aerial Lifts	0	8	63	0.31	0.6	261	0
Architectural Coatings	Air Compressors	0	8	78	0.48	0.6	261	0
Architectural Coatings	Concrete/Industrial Saws	0	8	81	0.73	0.6	261	0
Architectural Coatings	Cranes	0	8	231	0.29	0.6	261	0
Architectural Coatings	Forklifts	0	8	89	0.2	0.6	261	0
Architectural Coatings	Other Construction Equipment	0	8	172	0.42	0.6	261	0
Architectural Coatings	Signal Boards	0	8	6	0.82	0.6	261	0
Architectural Coatings	Trenchers	0	8	78	0.5	0.6	261	0
Architectural Coatings	Welders	0	8	46	0.45	0.6	261	0
Block 4 Demolition	Air Compressors	1	8	78	0.48	0.6	23	207
Block 4 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	23	163
Block 4 Demolition	Cranes	1	10	231	0.29	0.6	23	462
Block 4 Demolition	Excavators	1	8	158	0.38	0.6	23	331
Block 4 Demolition	Forklifts	1	8	89	0.2	0.6	23	98
Block 4 Demolition	Generator Sets	1	8	84	0.74	0.6	23	343
Block 4 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	23	399
Block 4 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	23	221
Block 4 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	23	0
Block 4 Demolition	Scrapers	1	8	367	0.48	0.6	23	972
Block 4 Demolition	Signal Boards	1	8	6	0.82	0.6	23	27
Block 4 Demolition	Skid Steer Loaders	1	8	65	0.37	0.6	23	133
Block 4 Grading	Air Compressors	1	8	78	0.48	0.6	109	979
Block 4 Grading	Bore/Drill Rigs	3	8	221	0.5	0.6	109	8,672
Block 4 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	109	132
Block 4 Grading	Concrete/Industrial Saws	2	4	81	0.73	0.6	109	1,547
Block 4 Grading	Excavators	2	8	158	0.38	0.6	109	3,141
Block 4 Grading	Forklifts	1	8	89	0.2	0.6	109	466
Block 4 Grading	Generator Sets	1	8	84	0.74	0.6	109	1,626
Block 4 Grading	Graders	0	8	187	0.41	0.6	109	0
Block 4 Grading	Other Construction Equipment	1	8	172	0.42	0.6	109	1,890
Block 4 Grading	Pumps	1	8	84	0.74	0.6	109	1,626
Block 4 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	109	1,046
Block 4 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	109	0
Block 4 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	109	1,912
Block 4 Grading	Scrapers	2	8	367	0.48	0.6	109	9,217
Block 4 Grading	Signal Boards	2	8	6	0.82	0.6	109	257
Block 4 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	109	629
Block 4 Grading	Surfacing Equipment	1	8	263	0.3	0.6	109	2,064
Block 4 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	109	939
Block 4 Grading	Trenchers	1	8	78	0.5	0.6	109	1,020
Block 4 Grading	Welders	2	8	46	0.45	0.6	109	1,083
Block 4 Foundation	Aerial Lifts	4	8	63	0.31	0.6	64	1,200
Block 4 Foundation	Air Compressors	2	8	78	0.48	0.6	64	1,150
Block 4 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	64	77
Block 4 Foundation	Concrete/Industrial Saws	2	4	81	0.73	0.6	64	908
Block 4 Foundation	Cranes	4	10	231	0.29	0.6	64	5,145
Block 4 Foundation	Forklifts	4	8	89	0.2	0.6	64	1,094
Block 4 Foundation	Generator Sets	1	8	84	0.74	0.6	64	955
Block 4 Foundation	Pumps	1	8	84	0.74	0.6	64	955
Block 4 Foundation	Rubber Tired Dozers	0	8	247	0.4	0.6	64	0

Block 4 Foundation	Signal Boards	1	8	6	0.82	0.6	64	76
Block 4 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	64	369
Block 4 Foundation	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	64	0
Block 4 Foundation	Welders	4	8	46	0.45	0.6	64	1,272
Block 4 Building Construction	Aerial Lifts	4	8	63	0.31	0.6	131	2,456
Block 4 Building Construction	Air Compressors	2	8	78	0.48	0.6	131	2,354
Block 4 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	131	158
Block 4 Building Construction	Concrete/Industrial Saws	1	8	81	0.73	0.6	131	1,859
Block 4 Building Construction	Cranes	4	10	231	0.29	0.6	131	10,531
Block 4 Building Construction	Forklifts	4	8	89	0.2	0.6	131	2,239
Block 4 Building Construction	Generator Sets	1	8	84	0.74	0.6	131	1,954
Block 4 Building Construction	Pumps	1	8	84	0.74	0.6	131	1,954
Block 4 Building Construction	Signal Boards	1	8	6	0.82	0.6	131	155
Block 4 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	131	756
Block 4 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	131	0
Block 4 Building Construction	Welders	4	8	46	0.45	0.6	131	2,603
Block 4 Finishing	Aerial Lifts	4	8	63	0.31	0.6	196	3,675
Block 4 Finishing	Air Compressors	0	6	78	0.48	0.6	196	0
Block 4 Finishing	Concrete/Industrial Saws	1	8	81	0.73	0.6	196	2,781
Block 4 Finishing	Cranes	3	10	231	0.29	0.6	196	11,817
Block 4 Finishing	Forklifts	2	8	89	0.2	0.6	196	1,675
Block 4 Finishing	Generator Sets	1	8	84	0.74	0.6	196	2,924
Block 4 Finishing	Pavers	1	8	130	0.42	0.6	196	2,568
Block 4 Finishing	Paving Equipment	1	8	132	0.36	0.6	196	2,235
Block 4 Finishing	Plate Compactors	1	8	8	0.43	0.6	196	162
Block 4 Finishing	Pumps	1	8	84	0.74	0.6	196	2,924
Block 4 Finishing	Rollers	1	8	80	0.38	0.6	196	1,430
Block 4 Finishing	Signal Boards	1	8	6	0.82	0.6	196	231
Block 4 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	196	3,711
Block 4 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	196	0
Block 4 Finishing	Trenchers	1	8	78	0.5	0.6	196	1,835
Block 4 Finishing	Welders	2	8	46	0.45	0.6	196	1,947
Block 3 Demolition	Air Compressors	1	8	78	0.48	0.6	44	395
Block 3 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	44	312
Block 3 Demolition	Excavators	1	8	158	0.38	0.6	44	634
Block 3 Demolition	Forklifts	1	8	89	0.2	0.6	44	188
Block 3 Demolition	Generator Sets	1	8	84	0.74	0.6	44	656
Block 3 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	44	763
Block 3 Demolition	Rubber Tired Dozers	1	8	247	0.4	0.6	44	1,043
Block 3 Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	44	379
Block 3 Demolition	Trenchers	1	8	78	0.5	0.6	44	412
Block 3 Grading	Air Compressors	1	8	78	0.48	0.6	86	773
Block 3 Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	86	4,561
Block 3 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	86	104
Block 3 Grading	Concrete/Industrial Saws	2	4	81	0.73	0.6	86	1,220
Block 3 Grading	Excavators	2	8	158	0.38	0.6	86	2,478
Block 3 Grading	Forklifts	1	8	89	0.2	0.6	86	367
Block 3 Grading	Generator Sets	1	8	84	0.74	0.6	86	1,283
Block 3 Grading	Graders	0	8	187	0.41	0.6	86	0
Block 3 Grading	Other Construction Equipment	1	8	172	0.42	0.6	86	1,491
Block 3 Grading	Pavers	1	8	130	0.42	0.6	86	1,127
Block 3 Grading	Paving Equipment	1	8	132	0.36	0.6	86	981
Block 3 Grading	Plate Compactors	1	8	8	0.43	0.6	86	71
Block 3 Grading	Pumps	1	8	84	0.74	0.6	86	1,283
Block 3 Grading	Rollers	1	8	80	0.38	0.6	86	627
Block 3 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	86	0
Block 3 Grading	Scrapers	1	8	367	0.48	0.6	86	3,636
Block 3 Grading	Signal Boards	2	8	6	0.82	0.6	86	203
Block 3 Grading	Surfacing Equipment	1	8	263	0.3	0.6	86	1,628
Block 3 Grading	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	86	0
Block 3 Grading	Trenchers	1	8	78	0.5	0.6	86	805
Block 3 Grading	Welders	1	8	46	0.45	0.6	86	427
Block 3 Foundation	Aerial Lifts	1	8	63	0.31	0.6	65	305
Block 3 Foundation	Air Compressors	1	8	78	0.48	0.6	65	584
Block 3 Foundation	Bore/Drill Rigs	1	8	221	0.5	0.6	65	1,724
Block 3 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	65	79
Block 3 Foundation	Concrete/Industrial Saws	1	4	81	0.73	0.6	65	461
Block 3 Foundation	Cranes	2	10	231	0.29	0.6	65	2,613
Block 3 Foundation	Forklifts	1	8	89	0.2	0.6	65	278
Block 3 Foundation	Plate Compactors	1	8	8	0.43	0.6	65	54
Block 3 Foundation	Pumps	1	8	84	0.74	0.6	65	970
Block 3 Foundation	Signal Boards	1	8	6	0.82	0.6	65	77
Block 3 Foundation	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	65	560
Block 3 Foundation	Welders	1	8	46	0.45	0.6	65	323
Block 3 Building Construction	Aerial Lifts	1	8	63	0.31	0.6	130	609
Block 3 Building Construction	Air Compressors	1	8	78	0.48	0.6	130	1,168
Block 3 Building Construction	Bore/Drill Rigs	1	8	221	0.5	0.6	130	3,448
Block 3 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	130	157
Block 3 Building Construction	Concrete/Industrial Saws	1	4	81	0.73	0.6	130	922
Block 3 Building Construction	Cranes	2	10	231	0.29	0.6	130	5,225
Block 3 Building Construction	Forklifts	1	8	89	0.2	0.6	130	555
Block 3 Building Construction	Generator Sets	0	8	84	0.74	0.6	130	0
Block 3 Building Construction	Other Construction Equipment	1	8	172	0.42	0.6	130	2,254
Block 3 Building Construction	Plate Compactors	1	8	8	0.43	0.6	130	107
Block 3 Building Construction	Pumps	1	8	84	0.74	0.6	130	1,939
Block 3 Building Construction	Signal Boards	1	8	6	0.82	0.6	130	154
Block 3 Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	130	1,120
Block 3 Building Construction	Welders	1	8	46	0.45	0.6	130	646
Block 3 Finishing	Aerial Lifts	2	8	63	0.31	0.6	195	1,828
Block 3 Finishing	Concrete/Industrial Saws	2	4	81	0.73	0.6	195	2,767

Block 3 Finishing	Cranes	2	10	231	0.29	0.6	195	7,838
Block 3 Finishing	Forklifts	1	8	89	0.2	0.6	195	833
Block 3 Finishing	Generator Sets	0	8	84	0.74	0.6	195	0
Block 3 Finishing	Signal Boards	1	8	6	0.82	0.6	195	230
Block 3 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	195	0
Block 3 Finishing	Trenchers	1	8	78	0.5	0.6	195	1,825
Block 3 Finishing	Welders	2	8	46	0.45	0.6	195	1,938
Block 2 Demolition	Air Compressors	1	8	78	0.48	0.6	45	404
Block 2 Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	45	639
Block 2 Demolition	Excavators	1	8	158	0.38	0.6	45	648
Block 2 Demolition	Forklifts	1	8	89	0.2	0.6	45	192
Block 2 Demolition	Generator Sets	1	8	84	0.74	0.6	45	671
Block 2 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	45	780
Block 2 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	45	432
Block 2 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	45	0
Block 2 Demolition	Scrapers	1	8	367	0.48	0.6	45	1,903
Block 2 Demolition	Trenchers	1	8	78	0.5	0.6	45	421
Block 2 Grading	Air Compressors	1	8	78	0.48	0.6	130	1,168
Block 2 Grading	Bore/Drill Rigs	2	8	221	0.5	0.6	130	6,895
Block 2 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	130	157
Block 2 Grading	Concrete/Industrial Saws	1	8	81	0.73	0.6	130	1,845
Block 2 Grading	Excavators	2	8	158	0.38	0.6	130	3,746
Block 2 Grading	Forklifts	3	8	89	0.2	0.6	130	1,666
Block 2 Grading	Generator Sets	1	8	84	0.74	0.6	130	1,939
Block 2 Grading	Graders	0	8	187	0.41	0.6	130	0
Block 2 Grading	Other Construction Equipment	1	8	172	0.42	0.6	130	2,254
Block 2 Grading	Pumps	1	8	84	0.74	0.6	130	1,939
Block 2 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	130	1,248
Block 2 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	130	0
Block 2 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	130	2,280
Block 2 Grading	Scrapers	0	8	367	0.48	0.6	130	0
Block 2 Grading	Signal Boards	1	8	6	0.82	0.6	130	154
Block 2 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	130	750
Block 2 Grading	Surfacing Equipment	1	8	263	0.3	0.6	130	2,462
Block 2 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	130	1,120
Block 2 Grading	Trenchers	1	8	78	0.5	0.6	130	1,217
Block 2 Grading	Welders	2	8	46	0.45	0.6	130	1,292
Block 2 Foundation	Aerial Lifts	3	8	63	0.31	0.6	109	1,533
Block 2 Foundation	Air Compressors	2	8	78	0.48	0.6	109	1,959
Block 2 Foundation	Bore/Drill Rigs	1	8	221	0.5	0.6	109	2,891
Block 2 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	109	132
Block 2 Foundation	Concrete/Industrial Saws	1	8	81	0.73	0.6	109	1,547
Block 2 Foundation	Cranes	3	10	231	0.29	0.6	109	6,572
Block 2 Foundation	Forklifts	3	8	89	0.2	0.6	109	1,397
Block 2 Foundation	Generator Sets	1	8	84	0.74	0.6	109	1,626
Block 2 Foundation	Pumps	1	8	84	0.74	0.6	109	1,626
Block 2 Foundation	Signal Boards	1	8	6	0.82	0.6	109	129
Block 2 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	109	629
Block 2 Foundation	Welders	3	8	46	0.45	0.6	109	1,625
Block 2 Building Construction	Aerial Lifts	3	8	63	0.31	0.6	151	2,123
Block 2 Building Construction	Air Compressors	2	8	78	0.48	0.6	151	2,714
Block 2 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	151	183
Block 2 Building Construction	Concrete/Industrial Saws	1	8	81	0.73	0.6	151	2,143
Block 2 Building Construction	Cranes	3	10	231	0.29	0.6	151	9,104
Block 2 Building Construction	Forklifts	3	8	89	0.2	0.6	151	1,935
Block 2 Building Construction	Generator Sets	1	8	84	0.74	0.6	151	2,253
Block 2 Building Construction	Pumps	1	8	84	0.74	0.6	151	2,253
Block 2 Building Construction	Signal Boards	1	8	6	0.82	0.6	151	178
Block 2 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	151	872
Block 2 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	151	0
Block 2 Building Construction	Welders	3	8	46	0.45	0.6	151	2,251
Block 2 Finishing	Aerial Lifts	3	8	63	0.31	0.6	220	3,094
Block 2 Finishing	Concrete/Industrial Saws	1	4	81	0.73	0.6	220	1,561
Block 2 Finishing	Cranes	2	10	231	0.29	0.6	220	8,843
Block 2 Finishing	Forklifts	2	8	89	0.2	0.6	220	1,880
Block 2 Finishing	Generator Sets	1	8	84	0.74	0.6	220	3,282
Block 2 Finishing	Pavers	1	8	130	0.42	0.6	220	2,883
Block 2 Finishing	Paving Equipment	1	8	132	0.36	0.6	220	2,509
Block 2 Finishing	Plate Compactors	1	8	8	0.43	0.6	220	182
Block 2 Finishing	Pumps	1	8	84	0.74	0.6	220	3,282
Block 2 Finishing	Rollers	1	8	80	0.38	0.6	220	1,605
Block 2 Finishing	Signal Boards	1	8	6	0.82	0.6	220	260
Block 2 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	220	4,166
Block 2 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	220	0
Block 2 Finishing	Trenchers	1	8	78	0.5	0.6	220	2,059
Block 2 Finishing	Welders	2	8	46	0.45	0.6	220	2,186
Block 1 Demolition	Air Compressors	1	8	78	0.48	0.6	41	368
Block 1 Demolition	Concrete/Industrial Saws	1	4	81	0.73	0.6	41	291
Block 1 Demolition	Excavators	1	8	158	0.38	0.6	41	591
Block 1 Demolition	Forklifts	1	8	89	0.2	0.6	41	175
Block 1 Demolition	Generator Sets	1	8	84	0.74	0.6	41	612
Block 1 Demolition	Other Construction Equipment	1	8	172	0.42	0.6	41	711
Block 1 Demolition	Pavers	0	8	130	0.42	0.6	41	0
Block 1 Demolition	Paving Equipment	0	8	132	0.36	0.6	41	0
Block 1 Demolition	Rollers	0	8	80	0.38	0.6	41	0
Block 1 Demolition	Rough Terrain Forklifts	1	8	100	0.4	0.6	41	394
Block 1 Demolition	Rubber Tired Dozers	0	8	247	0.4	0.6	41	0
Block 1 Demolition	Scrapers	1	8	367	0.48	0.6	41	1,733
Block 1 Demolition	Tractors/Loaders/Backhoes	0	8	97	0.37	0.6	41	0
Block 1 Demolition	Trenchers	1	8	78	0.5	0.6	41	384

Block 1 Grading	Air Compressors	1	8	78	0.48	0.6	132	1,186	
Block 1 Grading	Bore/Drill Rigs	3	8	221	0.5	0.6	132	10,502	
Block 1 Grading	Cement and Mortar Mixers	1	8	9	0.56	0.6	132	160	
Block 1 Grading	Concrete/Industrial Saws	1	8	81	0.73	0.6	132	1,873	
Block 1 Grading	Excavators	2	8	158	0.38	0.6	132	3,804	
Block 1 Grading	Forklifts	1	8	89	0.2	0.6	132	564	
Block 1 Grading	Generator Sets	1	8	84	0.74	0.6	132	1,969	
Block 1 Grading	Graders	0	8	187	0.41	0.6	132	0	
Block 1 Grading	Other Construction Equipment	1	8	172	0.42	0.6	132	2,289	
Block 1 Grading	Pumps	1	8	84	0.74	0.6	132	1,969	
Block 1 Grading	Rough Terrain Forklifts	1	8	100	0.4	0.6	132	1,267	
Block 1 Grading	Rubber Tired Dozers	0	8	247	0.4	0.6	132	0	
Block 1 Grading	Rubber Tired Loaders	1	8	203	0.36	0.6	132	2,315	
Block 1 Grading	Scrapers	0	8	367	0.48	0.6	132	0	
Block 1 Grading	Signal Boards	2	8	6	0.82	0.6	132	312	
Block 1 Grading	Skid Steer Loaders	1	8	65	0.37	0.6	132	762	
Block 1 Grading	Surfacing Equipment	1	8	263	0.3	0.6	132	2,500	
Block 1 Grading	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	132	1,137	
Block 1 Grading	Trenchers	1	8	78	0.5	0.6	132	1,236	
Block 1 Grading	Welders	2	8	46	0.45	0.6	132	1,312	
Block 1 Foundation	Aerial Lifts	4	8	63	0.31	0.6	109	2,044	
Block 1 Foundation	Air Compressors	2	8	78	0.48	0.6	109	1,959	
Block 1 Foundation	Cement and Mortar Mixers	1	8	9	0.56	0.6	109	132	
Block 1 Foundation	Concrete/Industrial Saws	1	8	81	0.73	0.6	109	1,547	
Block 1 Foundation	Cranes	4	10	231	0.29	0.6	109	8,762	
Block 1 Foundation	Forklifts	4	8	89	0.2	0.6	109	1,863	
Block 1 Foundation	Generator Sets	1	8	84	0.74	0.6	109	1,626	
Block 1 Foundation	Pumps	1	8	84	0.74	0.6	109	1,626	
Block 1 Foundation	Signal Boards	1	8	6	0.82	0.6	109	129	
Block 1 Foundation	Skid Steer Loaders	1	8	65	0.37	0.6	109	629	
Block 1 Foundation	Welders	4	8	46	0.45	0.6	109	2,166	
Block 1 Building Construction	Aerial Lifts	4	8	63	0.31	0.6	152	2,850	
Block 1 Building Construction	Air Compressors	2	8	78	0.48	0.6	152	2,732	
Block 1 Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	152	184	
Block 1 Building Construction	Concrete/Industrial Saws	1	8	81	0.73	0.6	152	2,157	
Block 1 Building Construction	Cranes	4	10	231	0.29	0.6	152	12,219	
Block 1 Building Construction	Forklifts	4	8	89	0.2	0.6	152	2,597	
Block 1 Building Construction	Generator Sets	1	8	84	0.74	0.6	152	2,268	
Block 1 Building Construction	Pumps	1	8	84	0.74	0.6	152	2,268	
Block 1 Building Construction	Signal Boards	1	8	6	0.82	0.6	152	179	
Block 1 Building Construction	Skid Steer Loaders	1	8	65	0.37	0.6	152	877	
Block 1 Building Construction	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	152	0	
Block 1 Building Construction	Welders	4	8	46	0.45	0.6	152	3,021	
Block 1 Finishing	Aerial Lifts	4	8	63	0.31	0.6	216	4,050	
Block 1 Finishing	Concrete/Industrial Saws	1	4	81	0.73	0.6	216	1,533	
Block 1 Finishing	Cranes	3	10	231	0.29	0.6	216	13,023	
Block 1 Finishing	Forklifts	2	8	89	0.2	0.6	216	1,846	
Block 1 Finishing	Generator Sets	1	8	84	0.74	0.6	216	3,222	
Block 1 Finishing	Pavers	1	8	130	0.42	0.6	216	2,830	
Block 1 Finishing	Paving Equipment	1	8	132	0.36	0.6	216	2,463	
Block 1 Finishing	Plate Compactors	1	8	8	0.43	0.6	216	178	
Block 1 Finishing	Pumps	1	8	84	0.74	0.6	216	3,222	
Block 1 Finishing	Rollers	1	8	80	0.38	0.6	216	1,576	
Block 1 Finishing	Signal Boards	1	8	6	0.82	0.6	216	255	
Block 1 Finishing	Surfacing Equipment	1	8	263	0.3	0.6	216	4,090	
Block 1 Finishing	Tractors/Loaders/Backhoes	0	7	97	0.37	0.6	216	0	
Block 1 Finishing	Trenchers	1	8	78	0.5	0.6	216	2,022	
Block 1 Finishing	Welders	2	8	46	0.45	0.6	216	2,146	
Total Diesel Usage for Construction (Offr								931,723.1	gallons of diesel fuel

gallons of diesel fuel per horsepower-hour=

0.05

Notes: Equipment assumptions are provide in the CalEEMod output files 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.

EMFAC2017 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)	Miles per Gallon
South Coast	LDA	GAS	Aggregate	4,040,505	154,312,636	19,063,483	5,097	0	30.3
South Coast	LDT1	GAS	Aggregate	466,456	17,402,686	2,155,710	667	0	26.1
South Coast	LDT2	GAS	Aggregate	1,395,328	52,851,239	6,550,846	2,173	0	24.3
Construction Worker Trip (Composite LDA/LDT1/LDT2):									27.7
South Coast	HHDT	DSL	Aggregate	58,359	7,034,024	585,291	0	1068.8	6.6

Notes: Consistent with CalEEMod, a construction worker trip is assumed to be a composite of 50% LDA , 25% for LDT1, and 25% for LDT2. Used EMFAC 2011 Categories for construction as EMFAC2011 has specific categories for vehicle class T7.

Calculation of Gasoline and Diesel Usage During Construction (Onroad Vehicles):

Phase Name	Daily Woker Trips	Daily Vendor Trips	Days	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Trip Length (miles)			Total Length (miles)			Avg. Daily Factor (worker and vendor)	Gallons of Fuel	
							Worker	Vendor	Haul	Worker	Vendor	Haul		Gasoline	Diesel
West Lot Demolition	40	12	41	1640	492	0	14.7	29	20	24108	14268	0	0.6	521.3	1,300.8
East Lot Grading	30	10	21	630	210	0	14.7	29	20	9261	6090	0	0.6	200.3	555.2
East Lot Building Construction	50	18	64	3200	1152	0	14.7	6.9	20	47040	7948.8	0	0.6	1,017.2	724.7
West Lot Grading	60	46	44	2640	2024	0	14.7	29	20	38808	58696	0	0.6	839.2	5,351.2
Block 0 Demolition	50	16	44	2200	704	0	14.7	29	20	32340	20416	0	0.6	699.4	1,861.3
West Lot Foundation	170	100	87	14790	8700	0	14.7	6.9	20	217413	60030	0	0.6	4,701.6	5,472.8
Block 0 Grading	70	42	109	7630	4578	0	14.7	29	20	112161	132762	0	0.6	2,425.5	12,103.7
West Lot Building Construction	170	28	43	7310	1204	0	14.7	6.9	20	107457	8307.6	0	0.6	2,323.8	757.4
Block 7 Demolition	30	32	21	630	672	0	14.7	29	20	9261	19488	0	0.6	200.3	1,776.7
Block 8 Demolition	40	10	44	1760	440	0	14.7	29	20	25872	12760	0	0.6	559.5	1,163.3
Block 7 Grading	70	30	109	7630	3270	0	14.7	29	20	112161	94830	0	0.6	2,425.5	8,645.5
West Lot Finishing	110	10	44	4840	440	0	14.7	6.9	20	71148	3036	0	0.6	1,538.6	276.8
Block 0 Building Construction	100	8	173	17300	1384	0	14.7	6.9	20	254310	9549.6	0	0.6	5,499.5	870.6
Block 8 Grading	80	170	130	10400	22100	0	14.7	29	20	152880	640900	0	0.6	3,306.1	58,429.6
Block 0&7 Finishing	0	0	260	0	0	0	14.7	6.9	20	0	0	0	0.6	0.0	0.0
Block 7 Foundation	550	100	65	35750	6500	0	14.7	6.9	20	525525	44850	0	0.6	11,364.6	4,088.9
Block 8 Foundation	300	32	87	26100	2784	0	14.7	6.9	20	383670	19209.6	0	0.6	8,296.9	1,751.3
Block 7 Building Construction	550	30	130	71500	3900	0	14.7	6.9	20	1051050	26910	0	0.6	22,729.2	2,453.3
Block 5/6 Demolition	40	46	22	880	1012	0	14.7	29	20	12936	29348	0	0.6	279.7	2,675.6
Block 8 Building Construction	300	32	43	12900	1376	0	14.7	6.9	20	189630	9494.4	0	0.6	4,100.8	865.6
Block 5/6 Grading	100	100	21	2100	2100	0	14.7	29	20	30870	60900	0	0.6	667.6	5,552.1
Block 5/6 Grading	100	240	196	19600	47040	0	14.7	29	20	288120	1364160	0	0.6	6,230.6	124,367.9
Block 7 Finishing	420	28	196	82320	5488	0	14.7	6.9	20	1210104	37867.2	0	0.6	26,168.7	3,452.3
Block 8 Building Construction	300	32	130	39000	4160	0	14.7	6.9	20	573300	28704	0	0.6	12,397.7	2,616.9
Block 8 Finishing	400	32	218	87200	6976	0	14.7	6.9	20	1281840	48134.4	0	0.6	27,720.0	4,388.3
Block 5/6 Foundation	710	100	130	92300	13000	0	14.7	6.9	20	1356810	89700	0	0.6	29,341.3	8,177.8
Block 5/6 Building Construction	710	32	109	77390	3488	0	14.7	6.9	20	1137633	24067.2	0	0.6	24,601.5	2,194.2
Block 5/6 Finishing	520	40	217	112840	8680	0	14.7	6.9	20	1658748	59892	0	0.6	35,870.7	5,460.2
Architectural Coatings	0	0	261	0	0	0	14.7	6.9	20	0	0	0	0.6	0.0	0.0
Block 4 Demolition	40	38	23	920	874	0	14.7	29	20	13524	25346	0	0.6	292.5	2,310.7
Block 4 Grading	80	85	109	8720	9265	0	14.7	29	20	128184	268685	0	0.6	2,772.0	24,495.5
Block 4 Foundation	600	100	64	38400	6400	0	14.7	6.9	20	564480	44160	0	0.6	12,207.0	4,026.0
Block 4 Building Construction	600	38	131	78600	4978	0	14.7	6.9	20	1155420	34348.2	0	0.6	24,986.2	3,131.5
Block 4 Finishing	460	32	196	90160	6272	0	14.7	6.9	20	1325352	43276.8	0	0.6	28,661.0	3,945.5
Block 3 Demolition	50	16	44	2200	704	0	14.7	29	20	32340	20416	0	0.6	699.4	1,861.3
Block 3 Grading	70	64	86	6020	5504	0	14.7	29	20	88494	159616	0	0.6	1,913.7	14,551.9
Block 3 Foundation	100	100	65	6500	6500	0	14.7	6.9	20	95550	44850	0	0.6	2,066.3	4,088.9
Block 3 Building Construction	100	8	130	13000	1040	0	14.7	6.9	20	191100	7176	0	0.6	4,132.6	654.2
Block 3 Finishing	80	3	195	15600	585	0	14.7	6.9	20	229320	4036.5	0	0.6	4,959.1	368.0
Block 2 Demolition	30	32	45	1350	1440	0	14.7	29	20	19845	41760	0	0.6	429.2	3,807.2
Block 2 Grading	70	70	130	9100	9100	0	14.7	29	20	133770	263900	0	0.6	2,892.8	24,059.3
Block 2 Foundation	550	100	109	59950	10900	0	14.7	6.9	20	881265	75210	0	0.6	19,057.5	6,856.8
Block 2 Building Construction	550	26	151	83050	3926	0	14.7	6.9	20	1220835	27089.4	0	0.6	26,400.8	2,469.7
Block 2 Finishing	420	28	220	92400	6160	0	14.7	6.9	20	1358280	42504	0	0.6	29,373.1	3,875.0
Block 1 Demolition	40	38	41	1640	1558	0	14.7	29	20	24108	45182	0	0.6	521.3	4,119.2
Block 1 Grading	80	126	132	10560	16632	0	14.7	29	20	155232	482328	0	0.6	3,356.9	43,972.9
Block 1 Foundation	600	100	109	65400	10900	0	14.7	6.9	20	961380	75210	0	0.6	20,790.0	6,856.8
Block 1 Building Construction	600	32	152	91200	4864	0	14.7	6.9	20	1340640	33561.6	0	0.6	28,991.6	3,059.7
Block 1 Finishing	460	32	216	99360	6912	0	14.7	6.9	20	1460592	47692.8	0	0.6	31,585.6	4,348.1
Total:														482,115.6	430,192.0

Worker Miles per gallon= 27.75 gasoline
 Vendor/Haul miles per gallon= 6.58 diesel

Notes: Consistent with CalEEMod worker vehicles are assumed to be gasoline and 50% LDA, 25%LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy Duty Trucks (T7).

Water Usage for Control of Fugitive Dust during Construction:

Phase	Days	Average Daily Acreage Disturbed	Gallons Per Year	Electricity (kWhr)
West Lot Demolition	41	1.0	123,820	1,204
East Lot Grading	21	1.0	63,420	617
East Lot Building Construction	64	0.0	0	0
West Lot Grading	44	1.0	132,880	1,293
Block 0 Demolition	44	1.0	132,880	1,293
West Lot Foundation	87	0.0	0	0
Block 0 Grading	109	1.0	329,180	3,202
West Lot Building Construction	43	0.0	0	0
Block 7 Demolition	21	1.0	63,420	617
Block 8 Demolition	44	1.0	132,880	1,293
Block 7 Grading	109	1.0	329,180	3,202
West Lot Finishing	44	0.0	0	0
Block 0 Building Construction	173	0.0	0	0
Block 8 Grading	130	1.0	392,600	3,819
Block 0&7 Finishing	260	0.0	0	0
Block 7 Foundation	65	0.0	0	0
Block 8 Foundation	87	0.0	0	0
Block 7 Building Construction	130	0.0	0	0
Block 5/6 Demolition	22	1.0	66,440	646
Block 8 Building Construction	43	0.0	0	0
Block 5/6 Grading	21	1.0	63,420	617
Block 5/6 Grading	196	1.0	591,920	5,758
Block 7 Finishing	196	0.0	0	0
Block 8 Building Construction	130	0.0	0	0
Block 8 Finishing	218	0.0	0	0
Block 5/6 Foundation	130	0.0	0	0
Block 5/6 Building Construction	109	0.0	0	0
Block 5/6 Finishing	217	0.0	0	0
Architectural Coatings	261	0.0	0	0
Block 4 Demolition	23	1.0	69,460	676
Block 4 Grading	109	1.0	329,180	3,202
Block 4 Foundation	64	0.0	0	0
Block 4 Building Construction	131	0.0	0	0
Block 4 Finishing	196	0.0	0	0
Block 3 Demolition	44	1.0	132,880	1,293
Block 3 Grading	86	1.0	259,720	2,526
Block 3 Foundation	65	0.0	0	0
Block 3 Building Construction	130	0.0	0	0
Block 3 Finishing	195	0.0	0	0
Block 2 Demolition	45	1.0	135,900	1,322
Block 2 Grading	130	1.0	392,600	3,819
Block 2 Foundation	109	0.0	0	0
Block 2 Building Construction	151	0.0	0	0
Block 2 Finishing	220	0.0	0	0
Block 1 Demolition	41	1.0	123,820	1,204
Block 1 Grading	132	1.0	398,640	3,878
Block 1 Foundation	109	0.0	0	0
Block 1 Building Construction	152	0.0	0	0
Block 1 Finishing	216	0.0	0	0
Total:			4,264,240	41,478

Water application rate=	3020 gal/acre/day
kWhr equivalent=	0.01 kWhr

Notes: 1) Gallons per year of water usage for dust control is calculated based on a minimum control efficiency of 66% (three times daily) with an application rate of 3,020 gal/acre/day (Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition)) and average of 26 construction days per month.

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

EMFAC2017 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2037

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)			
South Coast	2037	Annual	HHDT	DSL	Aggregated	Aggregated	64,994	8,852,515	680,082	0.00	974.27			
South Coast	2037	Annual	HHDT	GAS	Aggregated	Aggregated	66	8,169	1,322	1.54	0.00			
South Coast	2037	Annual	LDA	DSL	Aggregated	Aggregated	54,409	1,835,649	258,284	0.00	30.55			
South Coast	2037	Annual	LDA	GAS	Aggregated	Aggregated	4,543,076	149,842,594	21,362,188	3,764.63	0.00			
South Coast	2037	Annual	LDT1	DSL	Aggregated	Aggregated	98	2,978	438	0.00	0.10			
South Coast	2037	Annual	LDT1	GAS	Aggregated	Aggregated	637,277	20,210,658	2,940,402	597.17	0.00			
South Coast	2037	Annual	LDT2	DSL	Aggregated	Aggregated	17,316	573,887	81,900	0.00	12.78			
South Coast	2037	Annual	LDT2	GAS	Aggregated	Aggregated	1,745,657	56,683,489	8,146,013	1,657.79	0.00			
South Coast	2037	Annual	LHDT1	DSL	Aggregated	Aggregated	125,263	4,165,641	1,575,653	0.00	161.18			
South Coast	2037	Annual	LHDT1	GAS	Aggregated	Aggregated	114,766	3,769,784	1,709,843	303.12	0.00			
South Coast	2037	Annual	LHDT2	DSL	Aggregated	Aggregated	50,852	1,628,254	639,655	0.00	70.06			
South Coast	2037	Annual	LHDT2	GAS	Aggregated	Aggregated	20,733	655,290	308,894	60.67	0.00			
South Coast	2037	Annual	MCY	GAS	Aggregated	Aggregated	263,337	1,486,395	526,674	42.38	0.00			
South Coast	2037	Annual	MDV	DSL	Aggregated	Aggregated	38,248	1,196,747	180,326	0.00	34.55			
South Coast	2037	Annual	MDV	GAS	Aggregated	Aggregated	1,112,680	34,037,689	5,161,256	1,221.03	0.00			
South Coast	2037	Annual	MH	DSL	Aggregated	Aggregated	9,996	86,002	1,000	0.00	6.94			
South Coast	2037	Annual	MH	GAS	Aggregated	Aggregated	21,833	204,119	2,184	32.98	0.00			
South Coast	2037	Annual	MHDT	DSL	Aggregated	Aggregated	93,604	5,327,523	962,699	0.00	403.26			
South Coast	2037	Annual	MHDT	GAS	Aggregated	Aggregated	17,589	886,838	351,918	144.08	0.00			
South Coast	2037	Annual	OBUS	DSL	Aggregated	Aggregated	4,566	310,253	44,149	0.00	29.90			
South Coast	2037	Annual	OBUS	GAS	Aggregated	Aggregated	4,140	145,432	82,825	23.86	0.00			
South Coast	2037	Annual	SBUS	DSL	Aggregated	Aggregated	4,351	138,511	50,207	0.00	14.63			
South Coast	2037	Annual	SBUS	GAS	Aggregated	Aggregated	2,825	100,501	11,300	9.55	0.00			
South Coast	2037	Annual	UBUS	DSL	Aggregated	Aggregated	0	0	0	0.00	0.00			
South Coast	2037	Annual	UBUS	GAS	Aggregated	Aggregated	506	36,553	2,023	6.87	0.00			
											MPG	Gallons Per Mile		
							Totals	292,185,469.84			7,865.65	1,738.22	30.4	0.03
							Total (GAS)	268,067,509.79	0.92				34.1	0.03
							Total (DSL)	24,117,960.05	0.08				13.9	0.07

Baseline Year

Calendar Year: 2037

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)			
South Coast	2037	Annual	HHDT	DSL	Aggregated	Aggregated	64,994	8,852,515	680,082	0.00	974.27			
South Coast	2037	Annual	HHDT	GAS	Aggregated	Aggregated	66	8,169	1,322	1.54	0.00			
South Coast	2037	Annual	LDA	DSL	Aggregated	Aggregated	54,409	1,835,649	258,284	0.00	30.55			
South Coast	2037	Annual	LDA	GAS	Aggregated	Aggregated	4,543,076	149,842,594	21,362,188	3,764.63	0.00			
South Coast	2037	Annual	LDT1	DSL	Aggregated	Aggregated	98	2,978	438	0.00	0.10			
South Coast	2037	Annual	LDT1	GAS	Aggregated	Aggregated	637,277	20,210,658	2,940,402	597.17	0.00			
South Coast	2037	Annual	LDT2	DSL	Aggregated	Aggregated	17,316	573,887	81,900	0.00	12.78			
South Coast	2037	Annual	LDT2	GAS	Aggregated	Aggregated	1,745,657	56,683,489	8,146,013	1,657.79	0.00			
South Coast	2037	Annual	LHDT1	DSL	Aggregated	Aggregated	125,263	4,165,641	1,575,653	0.00	161.18			
South Coast	2037	Annual	LHDT1	GAS	Aggregated	Aggregated	114,766	3,769,784	1,709,843	303.12	0.00			
South Coast	2037	Annual	LHDT2	DSL	Aggregated	Aggregated	50,852	1,628,254	639,655	0.00	70.06			
South Coast	2037	Annual	LHDT2	GAS	Aggregated	Aggregated	20,733	655,290	308,894	60.67	0.00			
South Coast	2037	Annual	MCY	GAS	Aggregated	Aggregated	263,337	1,486,395	526,674	42.38	0.00			
South Coast	2037	Annual	MDV	DSL	Aggregated	Aggregated	38,248	1,196,747	180,326	0.00	34.55			
South Coast	2037	Annual	MDV	GAS	Aggregated	Aggregated	1,112,680	34,037,689	5,161,256	1,221.03	0.00			
South Coast	2037	Annual	MH	DSL	Aggregated	Aggregated	9,996	86,002	1,000	0.00	6.94			
South Coast	2037	Annual	MH	GAS	Aggregated	Aggregated	21,833	204,119	2,184	32.98	0.00			
South Coast	2037	Annual	MHDT	DSL	Aggregated	Aggregated	93,604	5,327,523	962,699	0.00	403.26			
South Coast	2037	Annual	MHDT	GAS	Aggregated	Aggregated	17,589	886,838	351,918	144.08	0.00			
South Coast	2037	Annual	OBUS	DSL	Aggregated	Aggregated	4,566	310,253	44,149	0.00	29.90			
South Coast	2037	Annual	OBUS	GAS	Aggregated	Aggregated	4,140	145,432	82,825	23.86	0.00			
South Coast	2037	Annual	SBUS	DSL	Aggregated	Aggregated	4,351	138,511	50,207	0.00	14.63			
South Coast	2037	Annual	SBUS	GAS	Aggregated	Aggregated	2,825	100,501	11,300	9.55	0.00			
South Coast	2037	Annual	UBUS	DSL	Aggregated	Aggregated	0	0	0	0.00	0.00			
South Coast	2037	Annual	UBUS	GAS	Aggregated	Aggregated	506	36,553	2,023	6.87	0.00			
											MPG	Gallons Per Mile		
							Totals	292,185,469.84			7,865.65	1,738.22	30.4	0.03
							Total (GAS)	268,067,509.79	0.92				34.1	0.03
							Total (DSL)	24,117,960.05	0.08				13.9	0.07

District NoHo (Existing Conditions)
Los Angeles-South Coast County, Annual

Trip Summary Information

<i>Total</i>	<i>Average Daily Trip Rate</i>			<i>Annual VMT</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
Total	0.00	0.00	0.00	0

Gasoline and Diesel Usage

	<i>Buildout Year</i>		<i>Existing (Baseline) Year</i>	
	<i>Gasoline</i>	<i>Diesel</i>	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	34.1	13.9	34.1	13.9
<i>% Fleet Mix</i>	91.7%	8.3%	91.7%	8.3%
Total (Gallons):	0	0	0	0

Energy by Land Use - Natural Gas

<i>Total</i>	<i>kBTU/yr</i>	<i>cu ft/year</i>
Total	455,318	433,636

Energy by Land Use - Electricity

<i>Land Uses</i>	<i>kWH/yr</i>
Total	694,235

Water Detail

<i>Land Uses</i>	<i>Indoor Use</i>		<i>Outdoor</i>	<i>Electricity</i>
	<i>(Mgal)</i>	<i>Use (Mgal)</i>	<i>Use (Mgal)</i>	<i>Use (kWh/yr)</i>
Total	11.88	0.03	0.03	150,271

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

**District NoHo - Buildout Operations Without Project Features/MXD
Los Angeles-South Coast County, Annual**

<i>Total</i>	<i>Average Daily Trip Rate</i>			<i>Annual VMT</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
	21,742	19	16,171	

Gasoline and Diesel Usage

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	34.1	13.9
<i>% Fleet Mix</i>	91.7%	8.3%
Total (Gallons):	1,637,416	361,849

Energy by Land Use - Natural Gas

	<i>kBTU/yr</i>	<i>cu ft/year</i>
Land Uses	38,537,201	36,702,096
Fireplaces	3,091,500	2,944,286
Total	41,628,701	39,646,382

Energy by Land Use - Electricity

<i>Land Uses</i>	<i>kWH/yr</i>
Total	20,189,007

Water Detail (Unmitigated)

	<i>Indoor Use</i>	<i>Outdoor Use</i>	<i>Electricity Use</i>
<i>Land Uses</i>	<i>(Mgal)</i>	<i>(Mgal)</i>	<i>(kWh/yr)</i>
Total	227.64	128.76	955,691

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

District NoHo - Buildout Operations with Project Fetures and MXD (No MMs)
Los Angeles-South Coast County, Annual

Trip Summary Information

Land Uses	Average Daily Trip Rate			Mitigated
	Weekday	Saturday	Sunday	
Total	12,425	11,058	9,242	35,502,624

Mitigated Gasoline and Diesel Usage

	Gasoline	Diesel
Miles/Gallon	34.1	13.9
% Fleet Mix	91.7%	8.3%
Total (Gallons):	955,733	211,206

Note: Fleet mix is 92.3% gasoline @ 30.6 miles/gallon and 7.7% diesel @ 12.1 miles/gallon.

Energy by Land Use - Natural Gas (Mitigated)

Land Uses	kBTU/yr	cu ft/year
Land Uses	38,537,201	36,702,096
Fireplaces	168,750	160,714
Total	38,705,951	36,862,810

Energy by Land Use - Electricity (Mitigated)

Land Uses	kWH/yr
Total	18,536,517

Note: Reduction in electricity usage reflects implementation of CalGreen and GHG-PDF-1 (Exceed baseline requirements for lighting by 25%). Reduction in natural gas usage reflects implementation of GHG-PDF-2 (Reduction in natural gas fireplaces).

Water Detail (Unmitigated)

Land Uses	Indoor Use (Mgal)	Outdoor Use (Mgal)	Electricity Use (kWh/yr)
Total	182.11	103.01	764,553

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod). The City of Los Angeles Green Building Code (Chapter IX, Article 9, of the LAMC) requires newly constructed non-residential and high-rise residential buildings to reduce indoor water use by at least 20 percent by: (1) using water saving fixtures or flow restrictions; and/or (2) demonstrating a 20 percent reduction in baseline water

Peak Electricity Demand Calculations

Electrical Load Factor Equation

$$f_{Load} = \frac{\text{Average load}}{\text{Maximum load in given time period}}$$

Load Factor (%)¹ **52%**

Project Electricity Demand (Operational)

Annual Demand	Baseline	
	(Existing)	Project
Building (MWh)	794	18,537
Water (MWh)	150	765
Total (MWh)	945	19,778

Average Daily Demand

Building (kWh)	2,176	50,785
Water (kWh)	412	2,095
Total (kWh)	2,588	54,185

Average Load

Building (kW)	91	2,116
Water (kW)	17	87
Total (kW)	108	2,258

Peak Load Calculation

Peak Load (kW) ²	192	4,157
Systemwide Peak Load (MW)		5,854
Percent of Peak		0.071%

¹2017 Report: System Efficiency of California's Electric Grid. California Public Utilities Co 2017. Page 11, Figure 6. Visual estimate.

² Peak Load is conservatively calculated without any reductions from removal of existing uses.

EMFAC Emission inventories for County

EMFAC2017 Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2022** (Construction Start Year)

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2022	HHDT	Aggregatec	Aggregatec	DSL	0.00	1068.80
Los Angeles	2022	HHDT	Aggregatec	Aggregatec	GAS	1.43	0.00
Los Angeles	2022	LDA	Aggregatec	Aggregatec	DSL	0.00	29.72
Los Angeles	2022	LDA	Aggregatec	Aggregatec	GAS	5096.55	0.00
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.31
Los Angeles	2022	LDT1	Aggregatec	Aggregatec	GAS	666.55	0.00
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	DSL	0.00	11.04
Los Angeles	2022	LDT2	Aggregatec	Aggregatec	GAS	2173.39	0.00
Los Angeles	2022	LHDT1	Aggregatec	Aggregatec	DSL	0.00	130.18
Los Angeles	2022	LHDT1	Aggregatec	Aggregatec	GAS	374.46	0.00
Los Angeles	2022	LHDT2	Aggregatec	Aggregatec	DSL	0.00	56.19
Los Angeles	2022	LHDT2	Aggregatec	Aggregatec	GAS	69.95	0.00
Los Angeles	2022	MCY	Aggregatec	Aggregatec	GAS	36.08	0.00
Los Angeles	2022	MDV	Aggregatec	Aggregatec	DSL	0.00	29.43
Los Angeles	2022	MDV	Aggregatec	Aggregatec	GAS	1672.53	0.00
Los Angeles	2022	MH	Aggregatec	Aggregatec	DSL	0.00	6.09
Los Angeles	2022	MH	Aggregatec	Aggregatec	GAS	38.64	0.00
Los Angeles	2022	MHDT	Aggregatec	Aggregatec	DSL	0.00	404.31
Los Angeles	2022	MHDT	Aggregatec	Aggregatec	GAS	160.71	0.00
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	DSL	0.00	28.63
Los Angeles	2022	OBUS	Aggregatec	Aggregatec	GAS	33.56	0.00
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	DSL	0.00	16.06
Los Angeles	2022	SBUS	Aggregatec	Aggregatec	GAS	6.19	0.00
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.81
Los Angeles	2022	UBUS	Aggregatec	Aggregatec	GAS	7.94	0.00
						3,773,361,064	650,271,759
Fuel Usage for Project Construction						482,116	1,361,915
Percentage of County for Construction						0.0128%	0.209%

EMFAC Emission inventories for County

EMFAC2017 Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: **2037** (Operational Start Year)

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Fuel_Gasoline (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
Los Angeles	2037	HHDT	Aggregatec	Aggregatec	DSL	0.00	974.27
Los Angeles	2037	HHDT	Aggregatec	Aggregatec	GAS	1.54	0.00
Los Angeles	2037	LDA	Aggregatec	Aggregatec	DSL	0.00	30.55
Los Angeles	2037	LDA	Aggregatec	Aggregatec	GAS	3764.63	0.00
Los Angeles	2037	LDT1	Aggregatec	Aggregatec	DSL	0.00	0.10
Los Angeles	2037	LDT1	Aggregatec	Aggregatec	GAS	597.17	0.00
Los Angeles	2037	LDT2	Aggregatec	Aggregatec	DSL	0.00	12.78
Los Angeles	2037	LDT2	Aggregatec	Aggregatec	GAS	1657.79	0.00
Los Angeles	2037	LHDT1	Aggregatec	Aggregatec	DSL	0.00	161.18
Los Angeles	2037	LHDT1	Aggregatec	Aggregatec	GAS	303.12	0.00
Los Angeles	2037	LHDT2	Aggregatec	Aggregatec	DSL	0.00	70.06
Los Angeles	2037	LHDT2	Aggregatec	Aggregatec	GAS	60.67	0.00
Los Angeles	2037	MCY	Aggregatec	Aggregatec	GAS	42.38	0.00
Los Angeles	2037	MDV	Aggregatec	Aggregatec	DSL	0.00	34.55
Los Angeles	2037	MDV	Aggregatec	Aggregatec	GAS	1221.03	0.00
Los Angeles	2037	MH	Aggregatec	Aggregatec	DSL	0.00	6.94
Los Angeles	2037	MH	Aggregatec	Aggregatec	GAS	32.98	0.00
Los Angeles	2037	MHDT	Aggregatec	Aggregatec	DSL	0.00	403.26
Los Angeles	2037	MHDT	Aggregatec	Aggregatec	GAS	144.08	0.00
Los Angeles	2037	OBUS	Aggregatec	Aggregatec	DSL	0.00	29.90
Los Angeles	2037	OBUS	Aggregatec	Aggregatec	GAS	23.86	0.00
Los Angeles	2037	SBUS	Aggregatec	Aggregatec	DSL	0.00	14.63
Los Angeles	2037	SBUS	Aggregatec	Aggregatec	GAS	9.55	0.00
Los Angeles	2037	UBUS	Aggregatec	Aggregatec	DSL	0.00	0.00
Los Angeles	2037	UBUS	Aggregatec	Aggregatec	GAS	6.87	0.00
						2,870,962,826	634,448,702
Net Fuel Usage for Project Operation						955,733	211,206
Percentage of County for Operation						0.0333%	0.0333%

		Sector Sales										
Lookup Year	Year	Residential (GWh)	Commercial (GWh)	Industrial (GWh)	Miscellaneous (GWh)	Electric Vehicles (GWh)	Ultimate Customers (GWh)	Energy for Load (GWh)	Peak Demand (MW)	Year	Average Total Supply (MMCF/Day)	Extreme Supply (MMCF/Day)
2000	2000-01	7,542	12,248	2,754	389	0	22,934	25,688	5,299	2020	2,462	2,540
2001	2001-02	7,282	11,979	2,496	391	0	22,149	24,903	4,805	2021	2,447	2,597
2002	2002-03	7,358	12,230	2,383	392	0	22,363	25,370	5,185	2022	2,457	2,613
2003	2003-04	8,061	12,559	2,485	414	0	23,520	26,701	5,410	2023	2,421	2,560
2004	2004-05	7,907	12,502	2,447	423	0	23,279	26,338	5,418	2024	2,349	2,480
2005	2005-06	8,051	12,699	2,451	432	0	23,634	26,828	5,667	2025	2,342	2,474
2006	2006-07	8,495	13,130	2,332	421	0	24,378	27,502	6,102	2026	2,317	2,457
2007	2007-08	8,540	13,269	2,366	441	0	24,617	27,928	6,071	2027	2,261	2,397
2008	2008-09	8,578	13,210	2,303	434	0	24,526	27,447	5,647	2030	2,132	2,248
2009	2009-10	8,300	12,582	2,073	417	0	23,373	26,526	5,709	2035	2,103	2,218
2010	2010-11	8,068	12,429	2,189	376	0	23,062	26,252	6,142			
2011	2011-12	8,162	12,601	1,924	349	0	23,037	26,552	5,907			
2012	2012-13	8,442	12,845	1,947	314	0	23,548	27,154	5,782			
2013	2013-14	7,957	12,740	1,827	269	0	22,793	26,756	5,862			
2014	2014-15	8,131	12,938	1,720	239	0	23,028	26,692	6,343			
2015	2015-16	8,291	13,283	1,676	259	0	23,616	26,870	6,234			
2016	2016-17	8,060	12,869	1,689	255	6	22,878	26,180	5,762			
2017	2017-18	8,017	12,689	1,804	267	103	22,880	26,010	6,432			
2018	2018-19	8,017	12,404	1,792	268	182	22,663	25,772	5,881			
2019	2019-20	8,008	12,179	1,799	268	265	22,520	25,684	5,866			
2020	2020-21	8,013	12,059	1,806	269	345	22,492	25,585	5,872			
2021	2021-22	8,046	12,056	1,813	270	428	22,613	25,703	5,889			
2022	2022-23	8,088	12,118	1,818	271	508	22,802	25,919	5,933			
2023	2023-24	8,140	12,215	1,820	271	587	23,033	26,245	5,976			
2024	2024-25	8,201	12,339	1,823	272	650	23,286	26,459	6,029			
2025	2025-26	8,258	12,462	1,828	273	716	23,537	26,748	6,076			
2026	2026-27	8,327	12,602	1,833	273	771	23,807	27,053	6,129			
2027	2027-28	8,399	12,742	1,838	274	826	24,078	27,428	6,182			
2028	2028-29	8,472	12,881	1,842	275	872	24,341	27,662	6,239			
2029	2029-30	8,546	13,015	1,847	275	925	24,609	27,961	6,291			
2030	2030-31	8,619	13,146	1,852	276	973	24,867	28,260	6,348			
2031	2031-32	8,694	13,281	1,857	277	1,025	25,135	28,631	6,400			
2032	2032-33	8,771	13,431	1,862	278	1,073	25,415	28,883	6,473			
2033	2033-34	8,851	13,592	1,868	278	1,125	25,714	29,218	6,514			
2034	2034-35	8,931	13,755	1,873	279	1,177	26,015	29,561	6,576			
2035	2035-36	9,011	13,922	1,878	280	1,229	26,320	29,981	6,633			
2036	2036-37	9,100	14,110	1,883	281	1,281	26,654	30,286	6,716			
2037	2037-38	9,190	14,300	1,888	281	1,333	26,993	30,669	6,769			
2038	2038-39	9,281	14,490	1,893	282	1,385	27,331	31,055	6,841			
2039	2039-40	9,372	14,678	1,899	283	1,437	27,668	31,509	6,911			