

Appendix D

Air Quality and Greenhouse Gas Emissions Modeling

Appendices

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Air Quality and Greenhouse Gas Emissions – Summary

CITY OF NEWPORT BEACH - GHG EMISSIONS

Source: CalEEMod 2013.2.2. and EMFAC2011-PL.

BASELINE

| EXISTING 2013 | MTCO ₂ e | Percent |
|------------------------|---------------------|---------|
| Transportation | 795,805 | 64% |
| Energy | 254,953 | 20% |
| Area | 3,219 | 0% |
| Waste | 159,217 | 13% |
| Water/Wastewater | 31,968 | 3% |
| Total | 1,245,162 | 100% |
| SP | 161,302 | |
| MTCO ₂ e/SP | 7.72 | |

Notes: SP = service population. Based on 2013 Emission Rates. Excludes pleasure-craft emissions, industrial emissions (e.g., oil extraction), and emissions from fire pits.

NET INCREASE

| 2006 GENERAL PLAN | MTCO ₂ e | Percent | Change from Existing |
|------------------------|---------------------|---------|----------------------|
| Transportation | 719,037 | 59% | -76,769 |
| Energy | 290,379 | 24% | 35,426 |
| Area | 5,827 | 0% | 2,608 |
| Waste | 176,459 | 14% | 17,243 |
| Water/Wastewater | 29,938 | 2% | -2,030 |
| Total | 1,221,640 | 100% | -23,522 |
| SP | 187,876 | | 26,574 |
| MTCO ₂ e/SP | 6.50 | | -1.22 |

Change from Existing SCAQMD THRESHOLD

| PROJECT | MTCO ₂ e | Percent | Change from Existing | Change from 2006 GP |
|------------------------|---------------------|---------|----------------------|---------------------|
| Transportation | 724,717 | 59% | -71,089 | 5,680 |
| Energy | 292,706 | 24% | 37,752 | 2,326 |
| Area | 6,266 | 1% | 3,047 | 439 |
| Waste | 181,990 | 15% | 22,773 | 5,530 |
| Water/Wastewater | 30,492 | 2% | -1,475 | 555 |
| Total | 1,236,171 | 100% | -8,991 | 14,531 |
| SP | 191,062 | | 29,760 | 3,186 |
| MTCO ₂ e/SP | 6.47 | | -1.25 | -0.03 |

Change from Existing -8,991 MTCO₂e

Change from 2006 General Plan 14,531 MTCO₂e

SCAQMD THRESHOLD 3,000 MTCO₂e

SCAQMD Plan-Level Efficiency Metric 6.6 MTCO₂e/SP

Notes: SP = service population. Based on 2035 Emission Rates. Excludes pleasure-craft emissions, industrial emissions (e.g., oil extraction), and emissions from fire pits.

CITY OF NEWPORT BEACH - CRITERIA AIR POLLUTANTS

Source: CalEEMod 2013.2.2. and EMFAC2011-PL. Note - energy based on CalEEMod rates but calculated outside of CalEEMod to account for changes in the Building Standards.

| BASELINE | | | | | | |
|----------------|---------|-----------------|--------|-----------------|------------------|-------------------|
| EXISTING 2013 | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| | lbs/day | | | | | |
| Transportation | 792 | 6,004 | 23,460 | 61 | 749 | 346 |
| Energy | 41 | 361 | 211 | 2 | 29 | 29 |
| Area | 5,572 | 67 | 6,068 | 0 | 389 | 389 |
| Total | 6,406 | 6,432 | 29,739 | 64 | 1,167 | 764 |

Notes: Based on 2013 Emission Rates. Excludes pleasure-craft emissions, industrial emissions (e.g., oil extraction), and emissions from fire pits.

| NET INCREASE | | | | | | |
|----------------|---------|-----------------|--------|-----------------|------------------|-------------------|
| EXISTING* | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| | lbs/day | | | | | |
| Transportation | 276 | 1,967 | 8,974 | 64 | 718 | 311 |
| Energy | 41 | 361 | 211 | 2 | 29 | 29 |
| Area | 5,572 | 67 | 6,068 | 0 | 389 | 389 |
| Total | 5,890 | 2,395 | 15,253 | 66 | 1,135 | 729 |

| 2006 GENERAL PLAN | | | | | | |
|----------------------|---------|-----------------|--------|-----------------|------------------|-------------------|
| | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| | lbs/day | | | | | |
| Transportation | 323 | 2,306 | 10,522 | 75 | 841 | 365 |
| Energy | 47 | 414 | 245 | 3 | 33 | 33 |
| Area | 6,005 | 76 | 6,865 | 0 | 407 | 407 |
| Total | 6,376 | 2,796 | 17,631 | 77 | 1,281 | 805 |
| Change from Existing | 486 | 401 | 2,378 | 11 | 146 | 76 |
| SCAQMD THRESHOLD | 55 | 55 | 550 | 150 | 150 | 55 |

| PROJECT | | | | | | |
|-------------------------------|---------|-----------------|--------|-----------------|------------------|-------------------|
| | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| | lbs/day | | | | | |
| Transportation | 326 | 2,324 | 10,605 | 75 | 848 | 368 |
| Energy | 47 | 414 | 242 | 3 | 33 | 33 |
| Area | 6,053 | 78 | 7,038 | 0 | 410 | 410 |
| Total | 6,427 | 2,816 | 17,885 | 78 | 1,291 | 811 |
| Change from Existing | 537 | 421 | 2,632 | 12 | 156 | 82 |
| Change from 2006 General Plan | 51 | 20 | 254 | 1 | 10 | 6 |
| SCAQMD THRESHOLD | 55 | 55 | 550 | 150 | 150 | 55 |

Notes: Based on 2035 Emission Rates. Excludes pleasure-craft emissions, industrial emissions (e.g., oil extraction), and emissions from fire pits.

Air Quality and Greenhouse Gas Emissions – Assumptions

**Table 4-1
City of Newport Beach 2006 General Plan Buildout Land Use Summary**

| Land Use Code | Description | CalEEMod | Units | 2013 Quantity | 2006 GP Quantity | Change from Existing to 2006 GP | Project | Change from Existing to Project | Change from Project to 2006 GP |
|---------------|-------------------------------------|---|-------|---------------|------------------|---------------------------------|------------|---------------------------------|--------------------------------|
| 1a | Res-Low (SFD)-Coastal | SFR | DU | 3,394 | 3,390 | -4,000 | 3,390 | 3,394 | 0 |
| 1b | Res-Low (SFD) | SFR | DU | 12,613 | 13,276 | 663,000 | 13,606 | 12,943 | 330 |
| TOTAL | | SFR | DU | 16,007 | 16,666 | 659 | 16,996 | 989 | 330 |
| 2a | Res-Medium (SFA)-Coastal | Condo/Townhome | DU | 6,286 | 7,817 | 1,531 | 7,815 | 1,529 | -2 |
| 2b | Res-Medium (SFA) | Condo/Townhome | DU | 8,351 | 10,742 | 2,391 | 10,471 | 2,120 | -271 |
| TOTAL | | Condo/Townhome | DU | 14,637 | 18,559 | 3,922 | 18,286 | 3,649 | -273 |
| 3a | Apartment-Coastal | Apartments Low Rise | DU | 1,096 | 1,793 | 697 | 1,795 | 699 | 2 |
| 3b | Apartment | Apartments Low Rise | DU | 8,471 | 9,254 | 783 | 9,276 | 805 | 22 |
| TOTAL | | Apartments Low Rise | DU | 9,567 | 11,047 | 1,480 | 11,071 | 1,504 | 24 |
| 3d | Apartment (Res-over-Retail) | Apartments Mid-Rise | DU | 0 | 453 | 453 | 453 | 453 | 0 |
| 3e | Apartment (Mid-Rise Newport Center) | Apartments Mid-Rise | DU | 245 | 769 | 524 | 1,369 | 1,024 | 500 |
| TOTAL | | Apartments Mid-Rise | DU | 245 | 1,222 | 977 | 1,722 | 1,477 | 500 |
| 3c | Apartment (High-Rise) | Apartment High-Rise | DU | 0 | 2,950 | 2,950 | 4,467 | 4,467 | 1,517 |
| 4 | Elderly Residential | Retirement Community | DU | 200 | 320 | 120 | 320 | 120 | 0 |
| 35 | Nursing/Conv. Home | Congregated care (Assisted Living) | BEDS | 661 | 433 | -228 | 433 | -228 | 0 |
| 5a | Mobile Home-Coastal | Mobile Home Park | DU | 309 | 0 | -309 | 0 | -309 | 0 |
| 5b | Mobile Home | Mobile Home Park | DU | 291 | 397 | 106 | 397 | 106 | 0 |
| TOTAL | | Mobile Home Park | DU | 600 | 397 | -203 | 397 | -203 | 0 |
| 28 | Pre-school/Day Care | Day-Care Center | TSF | 83,469 | 77,969 | -5,500 | 77,969 | -6 | 0 |
| 29 | Elementary/Private School | Elementary School | STU | 5,951 | 6,511 | 560 | 6,583 | 632 | 72 |
| | | Elementary School (SQFT from CalEEMod) | SQFT | 497,524 | 544,342 | 46,818 | 550,361 | 52,837 | 6,019 |
| 30 | Junior/High School | Junior High School | STU | 5,215 | 5,215 | 0 | 5,215 | 0 | 0 |
| | | Junior High School (SQFT from CalEEMod) | SQFT | 613,084 | 613,084 | 0 | 613,084 | 0 | 0 |
| 32 | Library | Library | TSF | 68,162 | 90,962 | 22,800 | 90,962 | 23 | 0 |
| 36 | Church | Place of Worship | TSF | 440,846 | 522,478 | 81,632 | 522,478 | 82 | 0 |
| 18 | Health Club | Health Club | TSF | 34,070 | 61,330 | 27,260 | 61,330 | 27 | 0 |
| 17 | Yacht Club | Health Club | TSF | 51,830 | 70,310 | 18,480 | 70,310 | 18 | 0 |
| TOTAL | | Health Club | TSF | 85,900 | 131,640 | 45,740 | 131,640 | 46 | 0 |
| 19 | Tennis Club | Racquet Club [not modeled in CalEEMod] | CRT | 60 | 43 | -17.0 | 43 | -17 | 0 |
| 20 | Marina | Not Applicable (excludes pleasurecraft emissions) | SLIP | 1,055 | 1,078 | 23.0 | 1,078 | 23 | 0 |
| 11 | Comm./Recreation | City Park | ACRE | 5,100 | 5,100 | 0.000 | 5,1 | 0 | 0 |
| 22 | Newport Dunes | City Park | ACRE | 64,000 | 64,000 | 0.000 | 64 | 0 | 0 |
| 38 | Park | City Park | ACRE | 173,380 | 218,730 | 45,350 | 218,730 | 45 | 0 |
| 39 | Regional Park | City Park | ACRE | 0,000 | 0,000 | 0.000 | 0 | 0 | 0 |
| TOTAL | | City Park | ACRE | 242,480 | 287,830 | 45,350 | 287,830 | 45 | 0 |
| 40 | Golf Course | Golf Course | ACRE | 338,640 | 338,640 | 0.000 | 338,640 | 0 | 0 |
| 41 | Resort Golf Course | Golf Course | ACRE | 392,880 | 392,880 | 0.000 | 392,880 | 0 | 0 |
| TOTAL | | Golf Course | ACRE | 731,520 | 731,520 | 0.000 | 731,520 | 0 | 0 |
| 6 | Motel | Motel | ROOM | 134 | 139 | 5 | 139 | 5 | 0 |
| | | Motel (SQFT from CalEEMod) | SQFT | 262,667 | 272,468 | 9,801 | 272,468 | 9,801 | 0 |
| 7 | Hotel | Hotel | ROOM | 3,857 | 5,561 | 1,704 | 4,860 | 1,003 | -701 |
| | | Hotel (SQFT from CalEEMod) | SQFT | 5,600,364 | 8,074,572 | 2,474,208 | 7,056,720 | 1,456,356 | -1,017,852 |
| 13 | Restaurant | Quality Restaurant | TSF | 95,050 | 154,510 | 59,460 | 154,510 | 59 | 0 |
| 15 | Fast Food Restaurant | Fast Food Restaurant | TSF | 12,640 | 8,130 | -4,510 | 8,130 | -5 | 0 |
| 21 | Theater | Movie Theater | SEAT | 4,469 | 4,445 | -24 | 4,445 | -24 | 0 |
| | | Movie Theater (SQFT from CalEEMod) | SQFT | 100,353 | 100,013 | -340 | 100,013 | -340 | 0 |
| 9 | Regional Commercial | Regional Shopping Center | TSF | 1,461,846 | 1,636,025 | 174,179 | 1,686,025 | 224 | 50 |
| 10a | General Commercial | Strip Mall | TSF | 4,058,200 | 4,775,910 | 717,710 | 4,795,103 | 737 | 19 |
| 10b | Comm (Res-over-Retail) | Strip Mall | TSF | 0,000 | 868,999 | 868,999 | 870,916 | 871 | 2 |
| TOTAL | | Strip Mall | TSF | 4,058,200 | 5,644,909 | 1,586,709 | 5,666,019 | 1,608 | 21 |
| 16 | Auto Dealer/Sales | Automobile Care Center | TSF | 318,636 | 244,650 | -73,986 | 244,650 | -74 | 0 |
| 23a | General Office | General Office Building | TSF | 9,223,368 | 8,634,270 | -589,098 | 8,432,054 | -791 | -202 |
| 23b | Office (>300K block Newport Center) | General Office Building | TSF | 2,306,510 | 2,645,696 | 339,186 | 3,341,589 | 1,035 | 696 |
| TOTAL | | General Office Building | TSF | 11,529,878 | 11,279,966 | -249,912 | 11,773,643 | 244 | 494 |
| 24 | Medical/Govt. Office | Medical Office Building | TSF | 1,496,233 | 1,452,952 | -43,281 | 1,452,952 | -43 | 0 |
| 34 | Hospital | Hospital | BED | 1,031 | 2,001 | 970 | 2,001 | 970 | 0 |
| | | Hospital (SQFT from CalEEMod) | SQFT | 737,946 | 1,432,231 | 694,285 | 1,432,231 | 694,285 | 0 |
| 25 | R & D | Research & Development | TSF | 81,730 | 81,730 | 0.000 | 81,730 | 0 | 0 |
| 33 | Post Office | Government Office Building | TSF | 53,700 | 63,800 | 10,100 | 63,800 | 10 | 0 |
| 31 | Cultural/Learning Center | Government (civic center) | TSF | 103,302 | 112,208 | 8,906 | 112,208 | 9 | 0 |
| 37 | Youth Ctr/Service | Government (civic center) | TSF | 195,312 | 198,810 | 3,498 | 198,810 | 3 | 0 |
| TOTAL | | Government (civic center) | TSF | 298,614 | 311,018 | 12,404 | 311,018 | 12 | 0 |
| 26 | Industrial | General Light Industrial | TSF | 1,240,489 | 773,919 | -466,570 | 773,919 | -467 | 0 |
| 27 | Mini-Storage/Warehouse | Unrefrigerated Warehouse - no rail | TSF | 196,420 | 196,420 | 0.000 | 196,420 | 0 | 0 |

Waste Generation

| Land Use Code | CalEEMod | CalRecycle Rates* | Units | Tons 2013 Quantity | Tons 2006 GP Quantity | Tons Change from Existing to 2006 GP | Tons Project | Tons Change from Existing to Project |
|---------------|---|-------------------|-------------------|--------------------|-----------------------|--------------------------------------|--------------|--------------------------------------|
| TOTAL | SFR | 12.23 | lbs/household/day | 35,727 | 37,198 | 1,471 | 37,935 | 2,207 |
| TOTAL | Condo/Townhome | 12.23 | lbs/household/day | 32,669 | 41,423 | 8,754 | 40,814 | 8,144 |
| TOTAL | Apartments Low Rise | 12.23 | lbs/household/day | 21,353 | 24,657 | 3,303 | 24,710 | 3,357 |
| TOTAL | Apartments Mid-Rise | 12.23 | lbs/household/day | 547 | 2,727 | 2,181 | 3,843 | 3,297 |
| 3c | Apartment High-Rise | 12.23 | lbs/household/day | 0 | 6,584 | 6,584 | 9,970 | 9,970 |
| 4 | Retirement Community | 12.23 | lbs/household/day | 446 | 714 | 268 | 714 | 268 |
| 35 | Congregated care (Assisted Living) | 12.23 | lbs/household/day | 1,475 | 966 | -509 | 966 | -509 |
| TOTAL | Mobile Home Park | 12.23 | lbs/household/day | 1,339 | 886 | -453 | 886 | -453 |
| 28 | Day-Care Center | 7 | lbs/TSF/day | 107 | 100 | -7 | 100 | -7 |
| 29 | Elementary School Elementary School (SQFT from CalEEMod) | 1 | lb/student/day | 1,086 | 1,188 | 102 | 1,201 | 115 |
| 30 | Junior High School Junior High School (SQFT from CalEEMod) | 1 | lb/student/day | 952 | 952 | 0 | 952 | 0 |
| 32 | Library | 7 | lbs/TSF/day | 87 | 116 | 29 | 116 | 29 |
| 36 | Place of Worship | 7 | lbs/TSF/day | 563 | 667 | 104 | 667 | 104 |
| TOTAL | Health Club | 7 | lbs/TSF/day | 110 | 168 | 58 | 168 | 58 |
| 19 | Racquet Club [not modeled in CalEEMod] | | | | | | | |
| 20 | Not Applicable (excludes pleasurecraft emissions) | | | | | | | |
| TOTAL | City Park | 0.49 | lbs/acre/day* | 22 | 26 | 4 | 26 | 4 |
| TOTAL | Golf Course | 0.49 | lbs/acre/day* | 66 | 66 | 0 | 66 | 0 |
| 6 | Motel Motel (SQFT from CalEEMod) | 4 | lbs/room/day | 98 | 101 | 4 | 101 | 4 |
| 7 | Hotel Hotel (SQFT from CalEEMod) | 4 | lbs/room/day | 2,816 | 4,060 | 1,244 | 3,548 | 732 |
| 13 | Quality Restaurant | 5 | lbs/TSF/day | 87 | 141 | 54 | 141 | 54 |
| 15 | Fast Food Restaurant | 5 | lbs/TSF/day | 12 | 7 | -4 | 7 | -4 |
| 21 | Movie Theater Movie Theater (SQFT from CalEEMod) | 31.2 | lbs/TSF/day | 573 | 569 | -3 | 569 | -3 |
| 9 | Regional Shopping Center | 31.2 | lbs/TSF/day | 8,324 | 9,316 | 992 | 9,600 | 1,276 |
| TOTAL | Strip Mall | 31.2 | lbs/TSF/day | 23,107 | 32,142 | 9,035 | 32,262 | 9,155 |
| 16 | Automobile Care Center | 31.2 | lbs/TSF/day | 1,814 | 1,393 | -421 | 1,393 | -421 |
| TOTAL | General Office Building | 84 | lbs/TSF/day | 176,753 | 172,922 | -3,831 | 180,490 | 3,737 |
| 24 | Medical Office Building | 84 | lbs/TSF/day | 22,937 | 22,274 | -663 | 22,274 | -663 |
| 34 | Hospital Hospital (SQFT from CalEEMod) | 84 | lbs/TSF/day | 11,313 | 21,956 | 10,643 | 21,956 | 10,643 |
| 25 | Research & Development | 84 | lbs/TSF/day | 1,253 | 1,253 | 0 | 1,253 | 0 |
| 33 | Government Office Building | 84 | lbs/TSF/day | 823 | 978 | 155 | 978 | 155 |
| TOTAL | Government (civic center) | 7 | lbs/TSF/day | 381 | 397 | 16 | 397 | 16 |
| 26 | General Light Industrial | 14.2 | lbs/TSF/day | 3,215 | 2,006 | -1,209 | 2,006 | -1,209 |
| 27 | Unrefrigerated Waterhouse - no rail | 14.2 | lbs/TSF/day | 509 | 509 | 0 | 509 | 0 |
| TOTAL | | | | 350,564 | 388,464 | 37,900 | 400,621 | 50,057 |

Source: CalRecycle rates provided by OC Waste & Recycling (2013). Water Generation rates for Golf Course and Park from the CalEEMod User's Guide (2013)

ENERGY USE

Source: CalEEMod Version 2013.2.2 and User's Guide.

2005 Building Code Rates

| EnergyUseLandUseSubType | Non-Title 24 | | | Title 24 Natural Gas KBTU/size/year | Non-Title 24 KBTU/size/year |
|-------------------------------------|--|-------------------------------|----------------------------------|--|--------------------------------|
| | Title 24 Electricity KWhr/size/year | Electricity KWhr/size/year | Lighting Energy KWh/size/year | | |
| Apartments High Rise | 226.43 | 2555.58 | 741.44 | 7475.05 | 1662 |
| Apartments Low Rise | 197.46 | 2631.99 | 810.36 | 9159.53 | 2498 |
| Apartments Mid Rise | 226.43 | 2555.58 | 741.44 | 7475.05 | 1662 |
| Automobile Care Center | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| City Park | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | 245.59 | 3126.32 | 1001.1 | 13843.2 | 2951 |
| Congregate Care (Assisted Living) | 226.43 | 2555.58 | 741.44 | 7475.05 | 1662 |
| Day-Care Center | 2.46 | 1.51 | 3.3 | 12.37 | 1.03 |
| Elementary School | 2.46 | 1.51 | 3.3 | 12.37 | 1.03 |
| Fast Food Restaurant w/o Drive Thru | 11.27 | 20.11 | 9.2 | 83.7 | 180.76 |
| General Light Industry | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| General Office Building | 6.17 | 4.94 | 5.27 | 10.28 | 0.55 |
| Golf Course | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | 6.17 | 4.94 | 5.27 | 10.28 | 0.55 |
| Government Office Building | 6.17 | 4.94 | 5.27 | 10.28 | 0.55 |
| Health Club | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| Hospital | 7.95 | 4.33 | 5.09 | 56.13 | 9.03 |
| Hotel | 3.64 | 3.24 | 3.71 | 31.09 | 5.15 |
| Junior High School | 2.46 | 1.51 | 3.3 | 12.37 | 1.03 |
| Library | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| Medical Office Building | 6.17 | 4.94 | 5.27 | 10.28 | 0.55 |
| Mobile Home Park | 749.49 | 3321.27 | 1038.6 | 18441.13 | 2103 |
| Motel | 3.64 | 3.24 | 3.71 | 31.09 | 5.15 |
| Movie Theater (No Matinee) | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| Place of Worship | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| Quality Restaurant | 11.27 | 20.11 | 9.2 | 83.7 | 180.76 |
| Regional Shopping Center | 3.79 | 2.8 | 6.85 | 1.06 | 1.05 |
| Research & Development | 2.12 | 3.83 | 3.7 | 15.24 | 6.86 |
| Retirement Community | 245.59 | 3126.32 | 1001.1 | 13843.2 | 2951 |
| Single Family Housing | 505.85 | 5089.81 | 1608.84 | 25627.22 | 5819 |
| Strip Mall | 3.79 | 2.8 | 6.85 | 1.06 | 1.05 |
| Unrefrigerated Warehouse-No Rail | 0.77 | 1.61 | 2.3 | 4.83 | 0.05 |

Existing Energy

| EnergyUseLandUseSubType | Units (DU or SQFT or Acres) | Non-Title 24 | | | TOTAL KWh/Year | Title 24 Natural Gas KBTU/year | Non-Title 24 KBTU/year | TOTAL KBTU/Year |
|-------------------------------------|--------------------------------|-----------------------------------|--------------------------|-----------------------------|--------------------|-----------------------------------|---------------------------|----------------------|
| | | Title 24 Electricity KWhr/year | Electricity KWhr/year | Lighting Energy KWh/year | | | | |
| Apartments High Rise | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Apartments Low Rise | 9,567 | 1,889,100 | 25,180,248 | 7,752,714 | 34,822,062 | 87,629,224 | 23,898,366 | 111,527,590 |
| Apartments Mid Rise | 245 | 55,475 | 626,117 | 181,653 | 863,245 | 1,831,387 | 407,190 | 2,238,577 |
| Automobile Care Center | 318,636 | 675,508 | 1,220,376 | 1,178,953 | 3,074,837 | 4,856,013 | 2,185,843 | 7,041,856 |
| City Park | 242 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | 14,637 | 3,594,701 | 45,759,946 | 14,653,101 | 64,007,747 | 202,622,918 | 43,193,787 | 245,816,705 |
| Congregate Care (Assisted Living) | 661 | 149,670 | 1,689,238 | 490,092 | 2,329,000 | 4,941,008 | 1,098,582 | 6,039,590 |
| Day-Care Center | 83,469 | 205,334 | 126,038 | 275,448 | 606,820 | 1,032,512 | 85,973 | 1,118,485 |
| Elementary School | 497,524 | 1,223,908 | 751,261 | 1,641,828 | 3,616,997 | 6,154,368 | 512,449 | 6,666,817 |
| Fast Food Restaurant w/o Drive Thru | 12,640 | 142,453 | 254,190 | 116,288 | 512,931 | 1,057,968 | 2,284,806 | 3,342,774 |
| General Light Industry | 1,240,489 | 2,629,837 | 4,751,073 | 4,589,809 | 11,970,719 | 18,905,052 | 8,509,755 | 27,414,807 |
| General Office Building | 11,529,878 | 71,139,347 | 56,957,597 | 60,762,457 | 188,859,402 | 118,527,146 | 6,341,433 | 124,868,579 |
| Golf Course | 732 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | 298,614 | 1,842,448 | 1,475,153 | 1,573,696 | 4,891,297 | 3,069,752 | 164,238 | 3,233,990 |
| Government Office Building | 53,700 | 331,329 | 265,278 | 282,999 | 879,606 | 552,036 | 29,535 | 581,571 |
| Health Club | 85,900 | 182,108 | 328,997 | 317,830 | 828,935 | 1,309,116 | 589,274 | 1,898,390 |
| Hospital | 737,946 | 5,866,671 | 3,195,306 | 3,756,145 | 12,818,123 | 41,420,912 | 6,663,653 | 48,084,565 |
| Hotel | 5,600,364 | 20,385,325 | 18,145,179 | 20,777,350 | 59,307,855 | 174,115,317 | 28,841,875 | 202,957,191 |
| Junior High School | 613,084 | 1,508,187 | 925,757 | 2,023,178 | 4,457,122 | 7,583,851 | 631,477 | 8,215,328 |
| Library | 68,162 | 144,503 | 261,060 | 252,199 | 657,763 | 1,038,789 | 467,591 | 1,506,380 |
| Medical Office Building | 1,496,233 | 9,231,758 | 7,391,391 | 7,885,148 | 24,508,297 | 15,381,275 | 822,928 | 16,204,203 |
| Mobile Home Park | 600 | 449,694 | 1,992,762 | 623,160 | 3,065,616 | 11,064,678 | 1,261,800 | 12,326,478 |
| Motel | 262,667 | 956,107 | 851,040 | 974,494 | 2,781,641 | 8,166,311 | 1,352,734 | 9,519,045 |
| Movie Theater (No Matinee) | 100,553 | 213,171 | 385,116 | 372,044 | 970,332 | 1,532,420 | 689,790 | 2,222,210 |
| Place of Worship | 440,846 | 934,594 | 1,688,440 | 1,631,130 | 4,254,164 | 6,718,493 | 3,024,204 | 9,742,697 |
| Quality Restaurant | 95,050 | 1,071,214 | 1,911,456 | 874,460 | 3,857,129 | 7,955,685 | 17,181,238 | 25,136,923 |
| Regional Shopping Center | 1,461,846 | 5,540,396 | 4,093,169 | 10,013,645 | 19,647,210 | 1,549,557 | 1,534,938 | 3,084,495 |
| Research & Development | 81,730 | 173,268 | 313,026 | 302,401 | 788,695 | 1,245,565 | 560,668 | 1,806,233 |
| Retirement Community | 200 | 49,118 | 625,264 | 200,220 | 874,602 | 2,768,640 | 590,200 | 3,358,840 |
| Single Family Housing | 16,007 | 8,097,141 | 81,472,589 | 25,752,702 | 115,322,432 | 410,214,911 | 93,144,733 | 503,359,644 |
| Strip Mall | 4,058,200 | 15,380,578 | 11,362,960 | 27,798,670 | 54,542,208 | 4,301,692 | 4,261,110 | 8,562,802 |
| Unrefrigerated Warehouse-No Rail | 196,420 | 151,243 | 316,236 | 451,766 | 919,246 | 948,709 | 9,821 | 958,530 |
| TOTAL | | 154,214,187 | 274,316,265 | 197,505,581 | 626,036,033 | 1,148,495,304 | 250,339,990 | 1,398,835,294 |

Assumes existing buildings were constructed prior to 2008 Building and Energy Efficiency Standards. It should be noted that many structures predate the 2005 Building and Energy Efficiency Standards and therefore this approach is a conservative estimate of the increase in energy use.

ENERGY USE

Source: CalEEMod Version 2013.2.2 and User's Guide.

2013 Building Code Rates (based on 2008 rates in CalEEMod with 25% decrease for T24 applied to residential and 30% decrease to T24 non-residential)

| EnergyUseLandUseSubType | Non-Title 24 | | | Title 24 Natural | Non-Title 24 |
|-------------------------------------|--|-------------------------------|----------------------------------|-----------------------|-------------------------------|
| | Title 24 Electricity KWhr/size/year | Electricity KWhr/size/year | Lighting Energy KWh/size/year | Gas KBTU/size/year | Natural Gas KBTU/size/year |
| Apartments High Rise | 136.37 | 2555.58 | 741.44 | 5213.85 | 1662.00 |
| Apartments Low Rise | 118.92 | 2631.99 | 810.36 | 6388.77 | 2498.00 |
| Apartments Mid Rise | 136.37 | 2555.58 | 741.44 | 5213.85 | 1662.00 |
| Automobile Care Center | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Condo/Townhouse | 147.91 | 3126.32 | 1001.10 | 9655.63 | 2951.00 |
| Congregate Care (Assisted Living) | 136.37 | 2555.58 | 741.44 | 5213.85 | 1662.00 |
| Day-Care Center | 1.62 | 1.51 | 3.09 | 7.97 | 1.03 |
| Elementary School | 1.62 | 1.51 | 3.09 | 7.97 | 1.03 |
| Fast Food Restaurant w/o Drive Thru | 7.45 | 20.11 | 8.58 | 57.87 | 180.76 |
| General Light Industry | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| General Office Building | 4.03 | 4.94 | 4.92 | 6.33 | 0.55 |
| Golf Course | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Government (Civic Center) | 4.03 | 4.94 | 4.92 | 6.33 | 0.55 |
| Government Office Building | 4.03 | 4.94 | 4.92 | 6.33 | 0.55 |
| Health Club | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| Hospital | 5.15 | 4.33 | 4.76 | 35.98 | 9.03 |
| Hotel | 2.37 | 3.24 | 3.46 | 21.43 | 5.15 |
| Junior High School | 1.62 | 1.51 | 3.09 | 7.97 | 1.03 |
| Library | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| Medical Office Building | 4.03 | 4.94 | 4.92 | 6.33 | 0.55 |
| Mobile Home Park | 451.38 | 3321.27 | 1038.60 | 12862.69 | 2103.00 |
| Motel | 2.37 | 3.24 | 3.46 | 21.43 | 5.15 |
| Movie Theater (No Matinee) | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| Place of Worship | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| Quality Restaurant | 7.45 | 20.11 | 8.58 | 57.87 | 180.76 |
| Regional Shopping Center | 2.51 | 2.80 | 6.42 | 0.70 | 1.05 |
| Research & Development | 1.39 | 3.83 | 3.42 | 10.35 | 6.86 |
| Retirement Community | 147.91 | 3126.32 | 1001.10 | 9655.63 | 2951.00 |
| Single Family Housing | 293.27 | 5089.81 | 1608.84 | 17298.38 | 5819.00 |
| Strip Mall | 2.51 | 2.80 | 6.42 | 0.70 | 1.05 |
| Unrefrigerated Warehouse-No Rail | 0.50 | 1.61 | 2.16 | 2.86 | 0.05 |

2006 GP Energy Increase

| EnergyUseLandUseSubType | Units | Non-Title 24 | | | TOTAL KWh/Year | Title 24 Natural | Non-Title 24 | TOTAL KBTU/Year |
|-------------------------------------|------------------|-----------------------------------|--------------------------|-----------------------------|-------------------|--------------------|--------------------------|--------------------|
| | | Title 24 Electricity KWhr/year | Electricity KWhr/year | Lighting Energy KWh/year | | Gas KBTU/year | Natural Gas KBTU/year | |
| Apartments High Rise | 2,950 | 402,277 | 7,538,961 | 2,187,248 | 10,128,486 | 15,380,858 | 4,902,900 | 20,283,758 |
| Apartments Low Rise | 1,480 | 176,002 | 3,895,345 | 1,199,333 | 5,270,680 | 9,455,380 | 3,697,040 | 13,152,420 |
| Apartments Mid Rise | 977 | 133,229 | 2,496,802 | 724,387 | 3,354,417 | 5,093,931 | 1,623,774 | 6,717,705 |
| Automobile Care Center | -73,986 | -156,850 | -283,366 | -273,748 | -713,965 | -1,127,547 | -507,544 | -1,635,091 |
| City Park | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | 3,922 | 580,093 | 12,261,427 | 3,926,314 | 16,767,834 | 37,869,371 | 11,573,822 | 49,443,193 |
| Congregate Care (Assisted Living) | -228 | -51,626 | -582,672 | -169,048 | -803,347 | -1,704,311 | -378,936 | -2,083,247 |
| Day-Care Center | -5,500 | -13,530 | -8,305 | -18,150 | -39,985 | -68,035 | -5,665 | -73,700 |
| Elementary School | 46,818 | 75,705 | 70,695 | 144,667 | 291,067 | 372,951 | 48,222 | 421,174 |
| Fast Food Restaurant w/o Drive Thru | -4,510 | -50,828 | -90,696 | -41,492 | -183,016 | -377,487 | -815,228 | -1,192,715 |
| General Light Industry | -466,570 | -989,128 | -1,786,963 | -1,726,309 | -4,502,401 | -7,110,527 | -3,200,670 | -10,311,197 |
| General Office Building | -249,912 | -1,541,957 | -1,234,565 | -1,317,036 | -4,093,559 | -2,569,095 | -137,452 | -2,706,547 |
| Golf Course | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | 12,404 | 50,013 | 61,276 | 61,028 | 172,316 | 78,493 | 6,822 | 85,315 |
| Government Office Building | 10,100 | 40,723 | 49,894 | 49,692 | 140,309 | 63,913 | 5,555 | 69,468 |
| Health Club | 45,740 | 63,716 | 175,184 | 156,431 | 395,331 | 473,226 | 313,776 | 787,002 |
| Hospital | 694,285 | 3,572,096 | 3,006,253 | 3,304,796 | 9,883,145 | 24,980,369 | 6,269,392 | 31,249,761 |
| Hotel | 2,474,208 | 5,871,296 | 8,016,434 | 8,560,760 | 22,448,489 | 53,032,174 | 12,742,171 | 65,774,345 |
| Junior High School | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Library | 22,800 | 31,760 | 87,324 | 77,976 | 197,060 | 235,889 | 156,408 | 392,297 |
| Medical Office Building | -43,281 | -267,044 | -213,808 | -228,091 | -708,943 | -444,929 | -23,805 | -468,733 |
| Mobile Home Park | -203 | -152,146 | -674,218 | -210,836 | -1,037,200 | -3,743,549 | -426,909 | -4,170,458 |
| Motel | 9,801 | 23,258 | 31,755 | 33,911 | 88,924 | 210,075 | 50,475 | 260,550 |
| Movie Theater (No Matinee) | -540 | -1,145 | -2,068 | -1,998 | -5,211 | -8,230 | -3,704 | -11,934 |
| Place of Worship | 81,632 | 113,713 | 312,651 | 279,181 | 705,545 | 844,565 | 559,996 | 1,404,560 |
| Quality Restaurant | 59,460 | 442,858 | 1,195,741 | 510,167 | 2,148,765 | 3,440,891 | 10,747,990 | 14,188,880 |
| Regional Shopping Center | 174,179 | 436,493 | 487,701 | 1,118,229 | 2,042,423 | 121,925 | 182,888 | 304,813 |
| Research & Development | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Retirement Community | 120 | 17,749 | 375,158 | 120,132 | 513,039 | 1,158,675 | 354,120 | 1,512,795 |
| Single Family Housing | 659 | 193,262 | 3,354,185 | 1,060,226 | 4,607,672 | 11,399,629 | 3,834,721 | 15,234,350 |
| Strip Mall | 1,586,709 | 3,976,293 | 4,442,785 | 10,186,672 | 18,605,750 | 1,110,696 | 1,666,044 | 2,776,741 |
| Unrefrigerated Warehouse-No Rail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL INCREASE | | 12,976,279 | 42,982,909 | 29,714,441 | 85,673,629 | 148,169,300 | 53,236,205 | 201,405,505 |

ENERGY USE

Source: CalEEMod Version 2013.2.2 and User's Guide.

2006 GP Energy

| EnergyUseLandUseSubType | Units | Non-Title 24 | | | TOTAL | Non-Title 24 | | TOTAL |
|-------------------------------------|-------|-----------------------------------|--------------------------|------------------------------|--------------------|-----------------------------------|--------------------------|----------------------|
| | | Title 24 Electricity KWhr/year | Electricity KWhr/year | Lighting Energy KWhr/year | | Title 24 Natural Gas KBTU/year | Natural Gas KBTU/year | |
| Apartments High Rise | | 402,277 | 7,538,961 | 2,187,248 | 10,128,486 | 15,380,858 | 4,902,900 | 20,283,758 |
| Apartments Low Rise | | 2,065,101 | 29,075,594 | 8,952,047 | 40,092,742 | 97,084,603 | 27,595,406 | 124,680,009 |
| Apartments Mid Rise | | 188,704 | 3,122,919 | 906,040 | 4,217,662 | 6,925,319 | 2,030,964 | 8,956,283 |
| Automobile Care Center | | 518,658 | 937,010 | 905,205 | 2,360,873 | 3,728,466 | 1,678,299 | 5,406,765 |
| City Park | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | | 4,174,794 | 58,021,373 | 18,579,415 | 80,775,582 | 240,492,289 | 54,767,609 | 295,259,898 |
| Congregate Care (Assisted Living) | | 98,044 | 1,106,566 | 321,044 | 1,525,654 | 3,236,697 | 719,646 | 3,956,343 |
| Day-Care Center | | 191,804 | 117,733 | 257,298 | 566,835 | 964,477 | 80,308 | 1,044,785 |
| Elementary School | | 1,299,613 | 821,956 | 1,786,495 | 3,908,064 | 6,527,319 | 560,672 | 7,087,991 |
| Fast Food Restaurant w/o Drive Thru | | 91,625 | 163,494 | 74,796 | 329,915 | 680,481 | 1,469,579 | 2,150,600 |
| General Light Industry | | 1,640,708 | 2,964,110 | 2,863,500 | 7,468,318 | 11,794,526 | 5,309,084 | 17,103,610 |
| General Office Building | | 69,597,390 | 55,723,032 | 59,445,421 | 184,765,843 | 115,958,050 | 6,203,981 | 122,162,032 |
| Golf Course | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | | 1,892,461 | 1,536,429 | 1,634,723 | 5,063,614 | 3,148,244 | 171,060 | 3,319,304 |
| Government Office Building | | 372,052 | 315,172 | 332,691 | 1,019,915 | 615,949 | 35,090 | 651,039 |
| Health Club | | 245,824 | 504,181 | 474,261 | 1,224,266 | 1,782,342 | 903,050 | 2,685,392 |
| Hospital | | 9,438,767 | 6,201,560 | 7,060,941 | 22,701,268 | 66,401,281 | 12,933,045 | 79,334,326 |
| Hotel | | 26,256,621 | 26,161,613 | 29,338,110 | 81,756,344 | 227,147,491 | 41,584,046 | 268,731,537 |
| Junior High School | | 1,508,187 | 925,757 | 2,023,178 | 4,457,122 | 7,583,851 | 631,477 | 8,215,328 |
| Library | | 176,264 | 348,384 | 330,175 | 854,824 | 1,274,678 | 623,999 | 1,898,677 |
| Medical Office Building | | 8,964,714 | 7,177,583 | 7,657,057 | 23,799,354 | 14,936,347 | 799,124 | 15,735,470 |
| Mobile Home Park | | 297,548 | 1,318,544 | 412,324 | 2,028,416 | 7,321,129 | 834,891 | 8,156,020 |
| Motel | | 979,365 | 882,796 | 1,008,405 | 2,870,566 | 8,376,385 | 1,403,209 | 9,779,595 |
| Movie Theater (No Matinee) | | 212,027 | 383,048 | 370,046 | 965,121 | 1,524,191 | 686,086 | 2,210,276 |
| Place of Worship | | 1,048,307 | 2,001,091 | 1,910,312 | 4,959,709 | 7,563,058 | 3,584,199 | 11,147,257 |
| Quality Restaurant | | 1,514,072 | 3,107,196 | 1,384,627 | 6,005,894 | 11,396,576 | 27,929,228 | 39,325,803 |
| Regional Shopping Center | | 5,976,889 | 4,580,870 | 11,131,874 | 21,689,633 | 1,671,482 | 1,717,826 | 3,389,308 |
| Research & Development | | 173,268 | 313,026 | 302,401 | 788,695 | 1,245,565 | 560,668 | 1,806,233 |
| Retirement Community | | 66,867 | 1,000,422 | 320,352 | 1,387,641 | 3,927,315 | 944,320 | 4,871,635 |
| Single Family Housing | | 8,290,403 | 84,826,773 | 26,812,927 | 119,930,103 | 421,614,540 | 96,979,454 | 518,593,994 |
| Strip Mall | | 19,356,871 | 15,805,745 | 37,985,342 | 73,147,958 | 5,412,388 | 5,927,154 | 11,339,543 |
| Unrefrigerated Warehouse-No Rail | | 151,243 | 316,236 | 451,766 | 919,246 | 948,709 | 9,821 | 958,530 |
| TOTAL INCREASE | | 167,190,465 | 317,299,174 | 227,220,022 | 711,709,661 | 1,296,664,604 | 303,576,195 | 1,600,240,799 |

ENERGY USE

Source: CalEEMod Version 2013.2.2 and User's Guide.

Project Energy Increase

| EnergyUseLandUseSubType | Units | Non-Title 24 | | | | Non-Title 24 | | |
|-------------------------------------|-----------|-----------------------------------|--------------------------|-----------------------------|-------------------|-----------------------------------|--------------------------|--------------------|
| | | Title 24 Electricity KWhr/year | Electricity KWhr/year | Lighting Energy KWh/year | TOTAL KWh/Year | Title 24 Natural Gas KBTU/year | Natural Gas KBTU/year | TOTAL KBTU/Year |
| Apartments High Rise | 4,467 | 609,142 | 11,415,776 | 3,312,012 | 15,336,931 | 23,290,268 | 7,424,154 | 30,714,422 |
| Apartments Low Rise | 1,504 | 178,856 | 3,958,513 | 1,218,781 | 5,356,150 | 9,608,710 | 3,756,992 | 13,365,702 |
| Apartments Mid Rise | 1,477 | 201,411 | 3,774,592 | 1,095,107 | 5,071,110 | 7,700,856 | 2,454,774 | 10,155,630 |
| Automobile Care Center | -73,986 | -103,062 | -283,366 | -253,032 | -639,461 | -765,459 | -507,544 | -1,273,003 |
| City Park | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | 3,649 | 539,714 | 11,407,942 | 3,653,014 | 15,600,670 | 35,233,385 | 10,768,199 | 46,001,584 |
| Congregate Care (Assisted Living) | -228 | -31,091 | -582,672 | -169,048 | -782,812 | -1,188,758 | -378,936 | -1,567,694 |
| Day-Care Center | -5,500 | -8,894 | -8,305 | -16,995 | -34,194 | -43,813 | -5,665 | -49,478 |
| Elementary School | 52,837 | 85,438 | 79,784 | 163,267 | 328,490 | 420,902 | 54,422 | 475,325 |
| Fast Food Restaurant w/o Drive Thru | -4,510 | -33,590 | -90,696 | -38,696 | -162,982 | -260,989 | -815,228 | -1,076,217 |
| General Light Industry | -466,570 | -649,932 | -1,786,963 | -1,595,669 | -4,032,565 | -4,827,133 | -3,200,670 | -8,027,803 |
| General Office Building | 243,765 | 982,860 | 1,204,199 | 1,199,324 | 3,386,383 | 1,542,545 | 134,071 | 1,676,616 |
| Golf Course | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | 12,404 | 50,013 | 61,276 | 61,028 | 172,316 | 78,493 | 6,822 | 85,315 |
| Government Office Building | 10,100 | 40,723 | 49,894 | 49,692 | 140,309 | 63,913 | 5,555 | 69,468 |
| Health Club | 45,740 | 63,716 | 175,184 | 156,431 | 395,331 | 473,226 | 313,776 | 787,002 |
| Hospital | 694,285 | 3,572,096 | 3,006,253 | 3,304,796 | 9,883,145 | 24,980,369 | 6,269,392 | 31,249,761 |
| Hotel | 1,456,356 | 3,455,933 | 4,718,593 | 5,038,992 | 13,213,518 | 31,215,535 | 7,500,233 | 38,715,768 |
| Junior High School | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Library | 22,800 | 31,760 | 87,324 | 77,976 | 197,060 | 235,889 | 156,408 | 392,297 |
| Medical Office Building | -43,281 | -174,509 | -213,808 | -212,943 | -601,260 | -273,882 | -23,805 | -297,687 |
| Mobile Home Park | -203 | -91,630 | -674,218 | -210,836 | -976,684 | -2,611,126 | -426,909 | -3,038,035 |
| Motel | 9,801 | 23,258 | 31,755 | 33,911 | 88,924 | 210,075 | 50,475 | 260,550 |
| Movie Theater (No Matinee) | -540 | -752 | -2,068 | -1,847 | -4,667 | -5,587 | -3,704 | -9,291 |
| Place of Worship | 81,632 | 113,713 | 312,651 | 279,181 | 705,545 | 844,565 | 559,996 | 1,404,560 |
| Quality Restaurant | 59,460 | 442,858 | 1,195,741 | 510,167 | 2,148,765 | 3,440,891 | 10,747,990 | 14,188,880 |
| Regional Shopping Center | 224,179 | 561,793 | 627,701 | 1,439,229 | 2,628,723 | 156,925 | 235,388 | 392,313 |
| Research & Development | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Retirement Community | 120 | 17,749 | 375,158 | 120,132 | 513,039 | 1,158,675 | 354,120 | 1,512,795 |
| Single Family Housing | 989 | 290,039 | 5,033,822 | 1,591,143 | 6,915,004 | 17,108,093 | 5,754,991 | 22,863,084 |
| Strip Mall | 1,607,819 | 4,029,194 | 4,501,893 | 10,322,198 | 18,853,286 | 1,125,473 | 1,688,210 | 2,813,683 |
| Unrefrigerated Warehouse-No Rail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL INCREASE | | 14,196,806 | 48,375,955 | 31,127,316 | 93,700,077 | 148,912,040 | 52,873,508 | 201,785,548 |

Project Energy

| EnergyUseLandUseSubType | Units | Non-Title 24 | | | | Non-Title 24 | | |
|-------------------------------------|-------|-----------------------------------|--------------------------|-----------------------------|--------------------|-----------------------------------|--------------------------|----------------------|
| | | Title 24 Electricity KWhr/year | Electricity KWhr/year | Lighting Energy KWh/year | TOTAL KWh/Year | Title 24 Natural Gas KBTU/year | Natural Gas KBTU/year | TOTAL KBTU/Year |
| Apartments High Rise | | 609,142 | 11,415,776 | 3,312,012 | 15,336,931 | 23,290,268 | 7,424,154 | 30,714,422 |
| Apartments Low Rise | | 2,067,956 | 29,138,761 | 8,971,496 | 40,178,212 | 97,237,934 | 27,655,358 | 124,893,292 |
| Apartments Mid Rise | | 256,886 | 4,400,709 | 1,276,760 | 5,934,355 | 9,532,244 | 2,861,964 | 12,394,208 |
| Automobile Care Center | | 572,446 | 937,010 | 925,921 | 2,435,376 | 4,090,553 | 1,678,299 | 5,768,852 |
| City Park | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Condo/Townhouse | | 4,134,415 | 57,167,888 | 18,306,115 | 79,608,417 | 237,856,303 | 53,961,986 | 291,818,289 |
| Congregate Care (Assisted Living) | | 118,579 | 1,106,566 | 321,044 | 1,546,189 | 3,752,250 | 719,646 | 4,471,896 |
| Day-Care Center | | 196,440 | 117,733 | 258,453 | 572,626 | 988,699 | 80,308 | 1,069,007 |
| Elementary School | | 1,309,346 | 831,045 | 1,805,095 | 3,945,487 | 6,575,270 | 566,872 | 7,142,142 |
| Fast Food Restaurant w/o Drive Thru | | 108,862 | 163,494 | 77,592 | 349,949 | 796,979 | 1,469,579 | 2,266,558 |
| General Light Industry | | 1,979,905 | 2,964,110 | 2,994,140 | 7,938,154 | 14,077,919 | 5,309,084 | 19,387,003 |
| General Office Building | | 72,122,208 | 58,161,796 | 61,961,781 | 192,245,785 | 120,069,691 | 6,475,504 | 126,545,194 |
| Golf Course | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Government (Civic Center) | | 1,892,461 | 1,536,429 | 1,634,723 | 5,063,614 | 3,148,244 | 171,060 | 3,319,304 |
| Government Office Building | | 372,052 | 315,172 | 332,691 | 1,019,915 | 615,949 | 35,090 | 651,039 |
| Health Club | | 245,824 | 504,181 | 474,261 | 1,224,266 | 1,782,342 | 903,050 | 2,685,392 |
| Hospital | | 9,438,767 | 6,201,560 | 7,060,941 | 22,701,268 | 66,401,281 | 12,933,045 | 79,334,326 |
| Hotel | | 23,841,258 | 22,863,773 | 25,816,342 | 72,521,373 | 205,330,851 | 36,342,108 | 241,672,959 |
| Junior High School | | 1,508,187 | 925,757 | 2,023,178 | 4,457,122 | 7,583,851 | 631,477 | 8,215,328 |
| Library | | 176,264 | 348,384 | 330,175 | 854,824 | 1,274,678 | 623,999 | 1,898,677 |
| Medical Office Building | | 9,057,249 | 7,177,583 | 7,672,205 | 23,907,037 | 15,107,393 | 799,124 | 15,906,517 |
| Mobile Home Park | | 358,064 | 1,318,544 | 412,324 | 2,088,932 | 8,453,552 | 834,891 | 9,288,443 |
| Motel | | 979,365 | 882,796 | 1,008,405 | 2,870,566 | 8,376,385 | 1,403,209 | 9,779,595 |
| Movie Theater (No Matinee) | | 212,419 | 383,048 | 370,197 | 965,664 | 1,526,833 | 686,086 | 2,212,919 |
| Place of Worship | | 1,048,307 | 2,001,091 | 1,910,312 | 4,959,709 | 7,563,058 | 3,584,199 | 11,147,257 |
| Quality Restaurant | | 1,514,072 | 3,107,196 | 1,384,627 | 6,005,894 | 11,396,576 | 27,929,228 | 39,325,803 |
| Regional Shopping Center | | 6,102,189 | 4,720,870 | 11,452,874 | 22,275,933 | 1,706,482 | 1,770,326 | 3,476,808 |
| Research & Development | | 173,268 | 313,026 | 302,401 | 788,695 | 1,245,565 | 560,668 | 1,806,233 |
| Retirement Community | | 66,867 | 1,000,422 | 320,352 | 1,387,641 | 3,927,315 | 944,320 | 4,871,635 |
| Single Family Housing | | 8,387,180 | 86,506,411 | 27,343,845 | 122,237,435 | 427,323,003 | 98,899,724 | 526,222,727 |
| Strip Mall | | 19,409,772 | 15,864,853 | 38,120,868 | 73,395,494 | 5,427,165 | 5,949,320 | 11,376,485 |
| Unrefrigerated Warehouse-No Rail | | 151,243 | 316,236 | 451,766 | 919,246 | 948,709 | 9,821 | 958,530 |
| TOTAL INCREASE | | 168,410,993 | 322,692,220 | 228,632,897 | 719,736,109 | 1,297,407,343 | 303,213,498 | 1,600,620,842 |

ENERGY USE

Source: CalEEMod Version 2013.2.2 and User's Guide.

EMISSIONS

Tons to MT 1

GHGs from Energy

| | 1 CO ₂ | 21 CH ₄ | 310 N ₂ O | CO ₂ e |
|-----------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| SCE Energy Intensity: | 1000 lbs/kwh 630.89 | 1000 lbs/kwh 0.03 | 1000 lbs/kwh 0.01 | 1000 lbs/kwh 633.36 |
| | MTCO ₂ /kwh 0.000286 | MTCH ₄ /kwh 0.000000 | MTN ₂ O/kwh 0.000000 | MTCO ₂ e/kwh 0.000287 |

| Natural Gas | 1 CO ₂ -Nbio | 21 CH ₄ | 310 N ₂ O | CO ₂ e |
|-------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| | lbs/MBTU 117.65 | lbs/MBTU 0.0022549 | lbs/MBTU 0.00215686 | lbs/MBTU 118.36 |
| | MTCO ₂ /KBTU 0.0000534 | MTCH ₄ /KBTU 0.0000000 | MTN ₂ O/KBTU 0.0000000 | MTCO ₂ e/KBTU 0.0000537 |

| Existing | Annual Kwh or KBTU | MTCO ₂ -Nbio | MTCH ₄ | MTN ₂ O | MTCO ₂ e |
|--------------|-----------------------|-------------------------|-------------------|--------------------|---------------------|
| Electricity | 626,036,033 | 179,151 | 8 | 2 | 179,852 |
| Natural Gas | 1,398,835,294 | 74,647 | 1 | 1 | 75,101 |
| Total | | 253,798 | 10 | 3 | 254,953 |

| 2006 General Plan | Annual Kwh or KBTU | MTCO ₂ -Nbio | MTCH ₄ | MTN ₂ O | MTCO ₂ e |
|-------------------|-----------------------|-------------------------|-------------------|--------------------|---------------------|
| Electricity | 711,709,661 | 203,668 | 9 | 2 | 204,465 |
| Natural Gas | 1,600,240,799 | 85,395 | 2 | 2 | 85,915 |
| Total | | 289,063 | 11 | 4 | 290,379 |

| Project | Annual Kwh or KBTU | MTCO ₂ -Nbio | MTCH ₄ | MTN ₂ O | MTCO ₂ e |
|--------------|-----------------------|-------------------------|-------------------|--------------------|---------------------|
| Electricity | 719,736,109 | 205,965 | 9 | 2 | 206,771 |
| Natural Gas | 1,600,620,842 | 85,415 | 2 | 2 | 85,935 |
| Total | | 291,380 | 11 | 4 | 292,706 |

Criteria Air Pollutants from Natural Gas

| Natural Gas lbs/MBTU | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
|-------------------------|------------|-----------------|------------|-----------------|------------------|-------------------|
| Residential | 0.01078431 | 0.09215686 | 0.03921569 | 0.00058824 | 0.00745098 | 0.00745098 |
| Non-Residential | 0.01078431 | 0.09803922 | 0.08235294 | 0.00058824 | 0.00745098 | 0.00745098 |

| Existing | Annual Kwh or KBTU | lbs/day ROG | lbs/day NO _x | lbs/day CO | lbs/day SO ₂ | lbs/day PM ₁₀ | lbs/day PM _{2.5} |
|-------------------------------|-----------------------|-------------|-------------------------|------------|-------------------------|--------------------------|---------------------------|
| Natural Gas (Residential) | 884,667,424 | 26 | 223 | 95 | 1 | 18 | 18 |
| Natural Gas (Non-Residential) | 514,167,870 | 15 | 138 | 116 | 1 | 10 | 10 |
| Total | 1,398,835,294 | 41 | 361 | 211 | 2 | 29 | 29 |

| 2006 GP | Annual Kwh or KBTU | lbs/day ROG | lbs/day NO _x | lbs/day CO | lbs/day SO ₂ | lbs/day PM ₁₀ | lbs/day PM _{2.5} |
|-------------------------------|-----------------------|-------------|-------------------------|------------|-------------------------|--------------------------|---------------------------|
| Natural Gas (Residential) | 984,757,939 | 29 | 249 | 106 | 2 | 20 | 20 |
| Natural Gas (Non-Residential) | 615,482,860 | 18 | 165 | 139 | 1 | 13 | 13 |
| Total | 1,600,240,799 | 47 | 414 | 245 | 3 | 33 | 33 |

| Project | Annual Kwh or KBTU | lbs/day ROG | lbs/day NO _x | lbs/day CO | lbs/day SO ₂ | lbs/day PM ₁₀ | lbs/day PM _{2.5} |
|-------------------------------|-----------------------|-------------|-------------------------|------------|-------------------------|--------------------------|---------------------------|
| Natural Gas (Residential) | 1,004,674,913 | 30 | 254 | 108 | 2 | 21 | 21 |
| Natural Gas (Non-Residential) | 595,945,929 | 18 | 160 | 134 | 1 | 12 | 12 |
| Total | 1,600,620,842 | 47 | 414 | 242 | 3 | 33 | 33 |

Forecast of Fireplaces for 2006 General Plan and Project Land Uses

Source: CalEEMod 2013.2.2. Assumes no wood stoves and all new fireplaces are natural gas.

CalEEMod fire pits

2 bundle of wood/pit 32 lbs assume that a fireplace is about 1/4 wood burned in a fire pit (8 lbs)

Source: SCAQMD Staff Report - Amendment to Rule 444 for Regulating Beach Bonfires. <http://www.aqmd.gov/hb/attachments/2011-2015/2013Jul/2013-Jul5-030.pdf>

CalEEMod default in CalEEMod

fireplace woodmass burned per year 1,019.2 CalEEMod Default
25 days per year people have a bonfire in their house (2.5 bundles)!

Note: CalEEMod assumes every resident in the SoCAB who has a fireplaces uses their fireplace 25 days per year (2.5 bundles per night)

25 days per year people burn 10 lbs of wood (~little over a 1/2) bundle per night

Revised Assumptions: Reduce fire places use in CalEEMod (wood and gas) by 75%

The revised assumptions accounts for the fact that not all people who have fireplaces use them, accounts for the fact that even if they use it not everyone would use it on the same night, and that SCAQMD implements fire curtailment program which restricts fireplace use in the SoCAB.

Note: Land Use changes in the City of Newport Beach do not affect regional and local use of beach fire pits. Fire pit emissions are not included in the City's inventory.

| Existing Fireplaces | | Default* | | | |
|-----------------------------------|-------------|------------|-----------|---------------|-------------------|
| FireplacesLandUseSubType | Total Units | NumberWood | NumberGas | NumberPropane | NumberNoFireplace |
| Apartments Low Rise | 9,567 | 478 | 8,132 | 0 | 957 |
| Apartments Mid Rise | 245 | 12 | 208 | 0 | 25 |
| Condo/Townhouse | 14,637 | 732 | 12,441 | 0 | 1,464 |
| Congregate Care (Assisted Living) | 661 | 0 | 0 | 0 | 661 |
| Mobile Home Park | 600 | 0 | 0 | 0 | 600 |
| Retirement Community | 200 | 10 | 170 | 0 | 20 |
| Single Family Housing | 16,007 | 800 | 13,606 | 0 | 1,601 |
| | 41,917 | 2,033 | 34,558 | | 5,327 |

*with the exception of congregate care (assisted living) facilities and mobile homes, which do not have fireplaces.

Revised assuming 1/2 bundle burned 32 days per year.

| FireplacesLandUseSubType | Total Units | NumberWood | NumberGas | NumberPropane | NumberNoFireplace |
|-----------------------------------|-------------|------------|-----------|---------------|-------------------|
| Apartments Low Rise | 9,567 | 120 | 2,033 | 0 | 7,414 |
| Apartments Mid Rise | 245 | 3 | 52 | 0 | 190 |
| Condo/Townhouse | 14,637 | 183 | 3,110 | 0 | 11,344 |
| Congregate Care (Assisted Living) | 661 | 0 | 0 | 0 | 661 |
| Mobile Home Park | 600 | 0 | 0 | 0 | 600 |
| Retirement Community | 200 | 3 | 43 | 0 | 155 |
| Single Family Housing | 16,007 | 200 | 3,401 | 0 | 12,405 |
| | 41,917 | 508 | 8,639 | | 32,769 |

*with the exception of congregate care (assisted living) facilities and mobile homes, which do not have fireplaces.

2006 General Plan Assumes all new units have gas burning fireplaces per SCAQMD Rule 445*

| FireplacesLandUseSubType | New Units | NumberWood | NumberGas | NumberPropane | NumberNoFireplace |
|-----------------------------------|-----------|------------|-----------|---------------|-------------------|
| Apartments High Rise | 2,950 | 0 | 2,950 | 0 | 0 |
| Apartments Low Rise | 1,480 | 120 | 3,513 | 0 | 7,414 |
| Apartments Mid Rise | 977 | 3 | 1,029 | 0 | 190 |
| Condo/Townhouse | 3,922 | 183 | 7,032 | 0 | 11,344 |
| Congregate Care (Assisted Living) | -228 | 0 | 0 | 0 | 433 |
| Mobile Home Park | -203 | 0 | 0 | 0 | 397 |
| Retirement Community | 120 | 3 | 163 | 0 | 155 |
| Single Family Housing | 659 | 200 | 4,060 | 0 | 12,405 |
| Existing + NEW | 48,644 | 508 | 15,797 | | 32,338 |

*with the exception of congregate care (assisted living) facilities and mobile homes, which do not have fireplaces.

Forecast of Fireplaces for 2006 General Plan and Project Land Uses

Source: CalEEMod 2013.2.2. Assumes no wood stoves and all new fireplaces are natural gas.

| Project | Assumes all new units have gas burning fireplaces per SCAQMD Rule 445* | | | | |
|-----------------------------------|--|------------|-----------|---------------|-------------------|
| FireplacesLandUseSubType | New Units | NumberWood | NumberGas | NumberPropane | NumberNoFireplace |
| Apartments High Rise | 4,467 | 0 | 4,467 | 0 | 0 |
| Apartments Low Rise | 1,504 | 120 | 3,537 | 0 | 7,414 |
| Apartments Mid Rise | 1,477 | 3 | 1,529 | 0 | 190 |
| Condo/Townhouse | 3,649 | 183 | 6,759 | 0 | 11,344 |
| Congregate Care (Assisted Living) | -228 | 0 | -228 | 0 | 433 |
| Mobile Home Park | -203 | 0 | -203 | 0 | 397 |
| Retirement Community | 120 | 3 | 163 | 0 | 155 |
| Single Family Housing | 989 | 200 | 4,390 | 0 | 12,405 |

*with the exception of congregate care (assisted living) facilities and mobile homes, which do not have fireplaces.

Water Demand

| | |
|--|------------------------|
| Water Agencies: | City Population within |
| | District |
| City of Newport Beach | 67,030 |
| Irvine Ranch Water District (IRWD) & Mesa Consolidated Water District (MCWD) | 17,946 |

| City of Newport Beach 2010 Water Demand by Sector | Acre-Feet/Year (AFY) | Percent |
|---|----------------------|---------|
| Residential | 9,605 | 54.5% |
| Commercial/Industrial | 2,960 | 16.8% |
| Institutional | 370 | 2.1% |
| Landscape | 3,710 | 21.0% |
| Water Loss (5.6% of demand) | 990 | 5.6% |
| | 17,635 | |

City of Newport Beach SBx7-7 Demand Calculations

| | | | |
|-----------------------------------|----------------------|--|--|
| | Existing | 2006 GP | Project |
| Population | 84,976 | 102,359 | 105,157 |
| Employment | 76,326 | 85,517 | 85,905 |
| Service Population | 161,302 | 187,876 | 191,062 |
| | GPCD | Citywide Water Use Based SBx7-7 AFY (Population only) | |
| Baseline Water Use | 253.5 | 24,129 | |
| <i>Adjusted for land use type</i> | GPCD Baseline | Existing AFY | |
| Residential | 138.1 | 13,142 | |
| Non-Residential | 101.2 | 8,652 | |
| Water Loss (5.6% of demand) | 14.2 | 2,571 | |
| | 253.5 | 24,366 | |
| gallons per year | | 7,939,570,443 | |
| | GPCD | Citywide Water Use Based SBx7-7 AFY (2006 GP Population only) | Citywide Water Use Based SBx7-7 AFY (Project Population only) |
| 2020 Target Water Use | 202.8 | 23,252 | 23,888 |
| <i>Adjusted for land use type</i> | GPCD Baseline | 2006 GP | Project |
| Residential | 110.5 | 12,665 | 13,011 |
| Non-Residential | 81.0 | 7,755 | 7,790 |
| Water Loss (5.6% of demand) | 11.4 | 2,396 | 2,437 |
| | 202.8 | 22,816 | 23,238 |
| gallons per year | | 7,434,499,847 | 7,572,010,141 |

Notes:

GPCD: Gallons per Capita per Day
gallon:AF 325851.429

CalEEMod Assumptions

| | Indoor | Outdoor | |
|-----------------------------------|---------------|-------------|---------------------|
| Existing Single-Family | 3,425,934,097 | 856,483,524 | 80% total is indoor |
| Existing Regional Shopping Center | 2,255,436,027 | 563,859,007 | 80% total is indoor |
| Existing City Park | | 837,857,788 | |
| 2006 GP Single-Family | 3,301,404,521 | 825,351,130 | 80% total is indoor |
| 2006 GP Regional Shopping Center | 2,021,624,324 | 505,406,081 | 80% total is indoor |
| 2006 GP City Park | | 780,713,791 | |
| Project Single-Family | 3,391,648,953 | 847,912,238 | 80% total is indoor |
| Project Regional Shopping Center | 2,030,796,655 | 507,699,164 | 80% total is indoor |
| Project City Park | | 793,953,130 | |

Note: Residential modeled under Single-Family, non-residential modeled under Regional Commercial, water loss modeled under City Park.

NEWPORT BEACH HARBOR, CALIFORNIA (046175)

Period of Record Monthly Climate Summary

Period of Record : 1/ 1/1921 to 3/31/2013

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Average Max. Temperature (F) | 63.2 | 63.4 | 63.9 | 65.2 | 67.0 | 69.1 | 72.2 | 73.4 | 73.0 | 70.9 | 67.8 | 64.2 | 67.8 |
| Average Min. Temperature (F) | 46.9 | 48.2 | 49.8 | 52.3 | 56.0 | 59.1 | 62.2 | 63.2 | 61.2 | 57.2 | 51.4 | 47.5 | 54.6 |
| Average Total Precipitation (in.) | 2.19 | 2.30 | 1.72 | 0.92 | 0.23 | 0.07 | 0.01 | 0.06 | 0.21 | 0.38 | 1.08 | 1.85 | 11.00 |
| Average Total SnowFall (in.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Average Snow Depth (in.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Percent of possible observations for period of record.

Max. Temp.: 98.2% Min. Temp.: 98.2% Precipitation: 98.4% Snowfall: 93.6% Snow Depth: 93.6%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu

NEWPORT BEACH HARBOR, CALIFORNIA

Period of Record General Climate Summary - Temperature

| Station:(046175) NEWPORT BEACH HARBOR | | | | | | | | | | | | | |
|---------------------------------------|------------------|------|------|----------------|---------------------------|-----|---------------------------|------------------|------|-------------|------|------------|-------|
| From Year=1921 To Year=2012 | | | | | | | | | | | | | |
| | Monthly Averages | | | Daily Extremes | | | | Monthly Extremes | | | | Max. Temp. | |
| | Max. | Min. | Mean | High | Date | Low | Date | Highest Mean | Year | Lowest Mean | Year | >= 90 F | <= 32 |
| | F | F | F | F | dd/yyyy or yyyymmdd | F | dd/yyyy or yyyymmdd | F | - | F | - | # Days | # Day |
| January | 63.2 | 46.9 | 55.1 | 87 | 09/1923 | 29 | 22/1937 | 64.0 | 2003 | 48.2 | 1937 | 0.0 | 0. |
| February | 63.4 | 48.2 | 55.8 | 89 | 07/1954 | 28 | 26/1966 | 60.6 | 2003 | 50.9 | 1949 | 0.0 | 0. |
| March | 63.9 | 49.8 | 56.9 | 91 | 14/1951 | 33 | 02/1953 | 61.4 | 2003 | 52.5 | 1962 | 0.0 | 0. |
| April | 65.2 | 52.3 | 58.8 | 98 | 05/1989 | 35 | 10/1934 | 62.9 | 1992 | 53.4 | 1967 | 0.0 | 0. |
| May | 67.0 | 56.0 | 61.6 | 92 | 11/1929 | 40 | 09/1970 | 66.0 | 1931 | 56.9 | 1933 | 0.0 | 0. |
| June | 69.1 | 59.1 | 64.1 | 102 | 15/1981 | 42 | 02/1923 | 69.9 | 1981 | 60.7 | 1991 | 0.1 | 0. |
| July | 72.2 | 62.2 | 67.2 | 106 | 21/1960 | 45 | 13/1929 | 73.4 | 1931 | 63.2 | 1965 | 0.0 | 0. |
| August | 73.4 | 63.2 | 68.3 | 94 | 31/1955 | 51 | 30/1929 | 74.2 | 1998 | 64.6 | 1924 | 0.1 | 0. |
| September | 73.0 | 61.2 | 67.1 | 107 | 26/1963 | 45 | 09/1929 | 75.6 | 1984 | 61.5 | 1933 | 0.3 | 0. |
| October | 70.9 | 57.2 | 64.0 | 96 | 21/1965 | 32 | 30/1971 | 70.0 | 1983 | 57.9 | 1924 | 0.3 | 0. |
| November | 67.8 | 51.4 | 59.6 | 94 | 03/1950 | 34 | 17/1958 | 64.6 | 2002 | 55.5 | 1994 | 0.1 | 0. |
| December | 64.2 | 47.5 | 55.9 | 94 | 16/1998 | 32 | 30/1971 | 60.6 | 1999 | 51.4 | 1971 | 0.0 | 0. |
| Annual | 67.8 | 54.6 | 61.2 | 107 | 19630926 | 28 | 19660226 | 64.4 | 1984 | 58.3 | 1933 | 0.9 | 0. |
| Winter | 63.6 | 47.5 | 55.6 | 94 | 19981216 | 28 | 19660226 | 61.0 | 2003 | 50.8 | 1949 | 0.0 | 0. |
| Spring | 65.4 | 52.7 | 59.1 | 98 | 19890405 | 33 | 19530302 | 62.9 | 1931 | 56.2 | 1933 | 0.1 | 0. |
| Summer | 71.6 | 61.5 | 66.5 | 106 | 19600721 | 42 | 19230602 | 71.4 | 1931 | 63.4 | 1991 | 0.2 | 0. |
| Fall | 70.6 | 56.6 | 63.6 | 107 | 19630926 | 32 | 19711030 | 67.9 | 1983 | 59.6 | 1924 | 0.7 | 0. |

Table updated on Oct 31, 2012

For monthly and annual means, thresholds, and sums:
 Months with 5 or more missing days are not considered
 Years with 1 or more missing months are not considered
 Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Transportation Sector – EMFAC2011-PL

CITY OF NEWPORT BEACH — TRANSPORTATION SECTOR (Origin-Destination Method)

| VMT | City of Newport Beach | | | | | | |
|-------------------|-----------------------|------------|-------------------------|------------|----------------|------------------------------|---------------|
| | Population | Employment | Service Population (SP) | Daily VMT* | Rate (VMT/ SP) | Adjusted Daily VMT (rounded) | Annual VMT |
| Existing 2013 | 84,976 | 76,326 | 161,302 | 6,100,051 | 37.82 | 6,100,100 | 2,116,734,700 |
| 2006 General Plan | 102,359 | 85,517 | 187,876 | 7,151,980 | 38.07 | 7,152,000 | 2,481,744,000 |
| Project | 105,157 | 85,905 | 191,062 | 7,208,539 | 37.73 | 7,208,500 | 2,501,349,500 |
| Difference | 2,798 | 388 | 3,186 | 56,559 | -0.34 | | |

Source: VMT, population, and employment is based on data provided by Urban Crossroads using the OCTAM regional transportation demand model.

Adjusted Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

CRITERIA AIR POLLUTANTS

| | lbs/day | | | | | |
|----------------------------|-----------|-------|--------|-----|------|-------|
| | ROG | NOx | CO | SOx | PM10 | PM2.5 |
| Existing 2013 | 792 | 6,004 | 23,460 | 61 | 749 | 346 |
| Existing 2013 w/2035 rates | 276 | 1,967 | 8,974 | 64 | 718 | 311 |
| 2006 General Plan | 323 | 2,306 | 10,522 | 75 | 841 | 365 |
| Project | 326 | 2,324 | 10,605 | 75 | 848 | 368 |
| | Tons/year | | | | | |
| | ROG | NOx | CO | SOx | PM10 | PM2.5 |
| Existing 2013 | 137 | 1,042 | 4,070 | 11 | 130 | 60 |
| Existing 2013 w/2035 rates | 48 | 341 | 1,557 | 11 | 125 | 54 |
| 2006 General Plan | 56 | 400 | 1,826 | 13 | 146 | 63 |
| Project | 57 | 403 | 1,840 | 13 | 147 | 64 |

Daily emissions multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Source: EMFAC2011-PL based on 40 mph running exhaust emissions (same as CalEEMod)

GREENHOUSE GAS EMISSIONS

| | MTCO ₂ e/year - Business as Usual (BAU) | | | MTCO ₂ e/year - Adjusted | | |
|-------------------|--|-----------------|-------------------|-------------------------------------|-----------------|-------------------|
| | N ₂ O | CO ₂ | CO ₂ e | N ₂ O | CO ₂ | CO ₂ e |
| Existing 2013 | 945 | 30 | 833,716 | 945 | 786,490 | 795,805 |
| 2006 General Plan | 363 | 12 | 1,024,360 | 363 | 715,459 | 719,037 |
| Project | 366 | 12 | 1,032,453 | 366 | 721,111 | 724,717 |

Source: EMFAC2011-PL based on 40 mph running exhaust emissions (same as CalEEMod)

Note: MT = metric tons; CO₂e = carbon dioxide-equivalent. Adjusted BAU includes Pavley and the Low Carbon Fuel Standard (LCFS).

State and Federal Fuel Efficiency Improvements + Low Carbon Fuel Standard (LCFS)

The Federal Government has adopted and has implemented improved Federal Corporate Economy Fuel Efficiency (CAFE) Standards for vehicles that correspond with the California Assembly Bill 1493 (AB 1493) Pavley I Fuel Efficiency Standards. In addition, the State of California has adopted the Low Carbon Fuel Standard (LCFS). In January 2012, the California Air Resources Board (CARB) adopted the Advanced Clean Car Program which implements the Pavley II Fuel Efficiency Standards and projects that by 2025, one in every seven new cars sold will be electric vehicles (PHEV or PEV). However, the Pavley II Advanced Clean Car Program is not included in the transportation emissions reductions and therefore reductions are conservative.

On December 29, 2011, the U.S. District Court for the Eastern District of California issued several rulings in the federal lawsuits challenging the LCFS. One of the court's rulings preliminarily enjoined the CARB from enforcing the regulation during the pendency of the litigation. In January 2012, CARB appealed the decision and on April 23, 2012, the Ninth Circuit Court granted CARB's motion for a stay of the injunction while it continued to consider CARB's appeal of the lower court's decision. On July 15, 2013, the State of California Court of Appeals held that the LCFS would remain in effect and that CARB can continue to implement and enforce the 2013 regulatory standards while it corrects certain aspects of the procedures by which the LCFS was adopted. Accordingly, CARB is continuing to implement and enforce the LCFS while addressing the court's concerns.

Existing 2013

Based on EMFAC2011

| Emission year | Daily | | | | | | |
|-------------------------------|----------------|------------|-----------------|---------------|-----------------|------------------|-------------------|
| | 2013 | 6,100,100 | lbs/day | | | | |
| | Percent of VMT | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| All Other Buses | 0.04% | 1 | 43 | 6 | 0 | 2 | 1 |
| LDA | 51.24% | 222 | 816 | 8,987 | 24 | 320 | 133 |
| LDT1 | 5.75% | 58 | 216 | 2,202 | 3 | 37 | 16 |
| LDT2 | 19.11% | 86 | 520 | 4,382 | 12 | 119 | 49 |
| LHD1 | 4.05% | 51 | 678 | 659 | 3 | 35 | 17 |
| LHD2 | 0.59% | 8 | 153 | 81 | 0 | 7 | 4 |
| MCY | 0.46% | 131 | 74 | 1,227 | 0 | 3 | 1 |
| MDV | 15.50% | 110 | 638 | 4,895 | 13 | 97 | 40 |
| MH | 0.22% | 5 | 63 | 148 | 0 | 3 | 2 |
| Motor Coach | 0.04% | 2 | 56 | 8 | 0 | 2 | 1 |
| OBUS | 0.06% | 1 | 11 | 22 | 0 | 0 | 0 |
| PTO | 0.02% | 2 | 43 | 11 | 0 | 1 | 1 |
| SBUS | 0.05% | 3 | 52 | 37 | 0 | 5 | 2 |
| T6 Ag | 0.00% | 0 | 2 | 0 | 0 | 0 | 0 |
| T6 CAIRP heavy | 0.00% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6 CAIRP small | 0.00% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6 instate construction heavy | 0.04% | 1 | 46 | 6 | 0 | 2 | 1 |
| T6 instate construction small | 0.12% | 3 | 84 | 14 | 0 | 5 | 3 |
| T6 instate heavy | 0.25% | 8 | 246 | 35 | 0 | 11 | 7 |
| T6 instate small | 0.69% | 18 | 456 | 77 | 1 | 27 | 18 |
| T6 OOS heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 OOS small | 0.00% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6 Public | 0.03% | 0 | 29 | 1 | 0 | 1 | 0 |
| T6 utility | 0.01% | 0 | 4 | 0 | 0 | 0 | 0 |
| T6TS | 0.27% | 8 | 63 | 169 | 0 | 2 | 1 |
| T7 Ag | 0.00% | 0 | 4 | 1 | 0 | 0 | 0 |
| T7 CAIRP | 0.19% | 10 | 208 | 49 | 0 | 9 | 7 |
| T7 CAIRP construction | 0.02% | 1 | 18 | 4 | 0 | 1 | 1 |
| T7 NNOOS | 0.21% | 7 | 130 | 35 | 0 | 7 | 5 |
| T7 NOOS | 0.07% | 3 | 76 | 17 | 0 | 3 | 2 |
| T7 other port | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 0.23% | 9 | 243 | 43 | 1 | 5 | 3 |
| T7 Public | 0.01% | 0 | 25 | 1 | 0 | 0 | 0 |
| T7 Single | 0.10% | 5 | 155 | 26 | 0 | 5 | 4 |
| T7 single construction | 0.04% | 2 | 63 | 10 | 0 | 2 | 1 |
| T7 SWCV | 0.03% | 0 | 61 | 3 | 0 | 1 | 0 |
| T7 tractor | 0.27% | 18 | 403 | 94 | 1 | 16 | 12 |
| T7 tractor construction | 0.03% | 2 | 47 | 11 | 0 | 2 | 1 |
| T7 utility | 0.00% | 0 | 2 | 0 | 0 | 0 | 0 |
| T7IS | 0.03% | 3 | 19 | 92 | 0 | 0 | 0 |
| UBUS | 0.21% | 13 | 254 | 108 | 1 | 22 | 11 |
| TOTAL | 100% | 792 | 6,004 | 23,460 | 61 | 749 | 346 |

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

Existing 2013

Based on EMFAC2011

| | Emission year | GWP | | GWP | | | |
|-------------------------------|----------------|-----------------|------------------|-----------------|-------------------|--------------------------------|------------------------------------|
| | 2035 | 2,116,734,700 | 310 | 1 | MTons | MTons | |
| | Percent of VMT | NO _x | N ₂ O | CO ₂ | CO ₂ e | CO ₂ w/Pavley + LCF | CO ₂ e w/ Pavley + LCFS |
| All Other Buses | 0% | 7 | 0 | 959 | 1,025 | 949 | 1,016 |
| LDA | 51% | 128 | 4 | 321,111 | 322,378 | 294,571 | 295,838 |
| LDT1 | 6% | 34 | 1 | 41,521 | 41,855 | 38,586 | 38,921 |
| LDT2 | 19% | 82 | 3 | 163,471 | 164,277 | 153,977 | 154,783 |
| LHD1 | 4% | 107 | 3 | 41,710 | 42,762 | 41,293 | 42,345 |
| LHD2 | 1% | 24 | 1 | 6,214 | 6,451 | 6,152 | 6,389 |
| MCY | 0% | 12 | 0 | 1,266 | 1,381 | 1,253 | 1,368 |
| MDV | 16% | 100 | 3 | 168,407 | 169,398 | 161,542 | 162,532 |
| MH | 0% | 10 | 0 | 2,774 | 2,871 | 2,746 | 2,844 |
| Motor Coach | 0% | 9 | 0 | 1,484 | 1,571 | 1,470 | 1,557 |
| OBUS | 0% | 2 | 0 | 597 | 613 | 591 | 607 |
| PTO | 0% | 7 | 0 | 1,111 | 1,178 | 1,100 | 1,167 |
| SBUS | 0% | 8 | 0 | 1,026 | 1,107 | 1,015 | 1,097 |
| T6 Ag | 0% | 0 | 0 | 42 | 45 | 41 | 44 |
| T6 CAIRP heavy | 0% | 0 | 0 | 19 | 20 | 19 | 20 |
| T6 CAIRP small | 0% | 0 | 0 | 64 | 66 | 63 | 65 |
| T6 instate construction heavy | 0% | 7 | 0 | 1,045 | 1,115 | 1,034 | 1,105 |
| T6 instate construction small | 0% | 13 | 0 | 2,777 | 2,908 | 2,750 | 2,880 |
| T6 instate heavy | 0% | 39 | 1 | 5,899 | 6,281 | 5,840 | 6,222 |
| T6 instate small | 1% | 72 | 2 | 16,065 | 16,773 | 15,904 | 16,612 |
| T6 OOS heavy | 0% | 0 | 0 | 11 | 12 | 11 | 12 |
| T6 OOS small | 0% | 0 | 0 | 37 | 38 | 36 | 37 |
| T6 Public | 0% | 5 | 0 | 659 | 704 | 652 | 697 |
| T6 utility | 0% | 1 | 0 | 118 | 123 | 116 | 122 |
| T6TS | 0% | 10 | 0 | 2,743 | 2,841 | 2,715 | 2,813 |
| T7 Ag | 0% | 1 | 0 | 81 | 88 | 81 | 87 |
| T7 CAIRP | 0% | 33 | 1 | 6,809 | 7,132 | 6,741 | 7,064 |
| T7 CAIRP construction | 0% | 3 | 0 | 561 | 588 | 556 | 583 |
| T7 NNOOS | 0% | 21 | 1 | 7,609 | 7,811 | 7,533 | 7,735 |
| T7 NOOS | 0% | 12 | 0 | 2,482 | 2,599 | 2,457 | 2,574 |
| T7 other port | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 0% | 38 | 1 | 8,307 | 8,685 | 8,224 | 8,602 |
| T7 Public | 0% | 4 | 0 | 471 | 509 | 466 | 504 |
| T7 Single | 0% | 24 | 1 | 3,659 | 3,899 | 3,622 | 3,862 |
| T7 single construction | 0% | 10 | 0 | 1,450 | 1,547 | 1,435 | 1,532 |
| T7 SWCV | 0% | 10 | 0 | 1,278 | 1,373 | 1,265 | 1,360 |
| T7 tractor | 0% | 63 | 2 | 9,616 | 10,242 | 9,520 | 10,146 |
| T7 tractor construction | 0% | 7 | 0 | 1,082 | 1,156 | 1,072 | 1,145 |
| T7 utility | 0% | 0 | 0 | 54 | 57 | 53 | 56 |
| T7IS | 0% | 3 | 0 | 288 | 319 | 285 | 316 |
| UBUS | 0% | 40 | 1 | 8,840 | 9,234 | 8,752 | 9,145 |
| TOTAL | 100% | 945 | 30 | 833,716 | 843,032 | 786,490 | 795,805 |

N₂O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N₂O with NO_x. (N₂O = 0.0167 + 0.0318 x NO_x)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

Existing 2013

Based on EMFAC2011

| Emission year | Daily | | | | | | |
|-------------------------------|----------------|------------|-----------------|--------------|-----------------|------------------|-------------------|
| | 2035 | 6,100,100 | lbs/day | | | | |
| | Percent of VMT | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| All Other Buses | 0.06% | 1 | 9 | 3 | 0 | 1 | 1 |
| LDA | 47.75% | 46 | 319 | 3,489 | 22 | 298 | 124 |
| LDT1 | 5.96% | 7 | 47 | 539 | 3 | 37 | 15 |
| LDT2 | 20.40% | 25 | 168 | 1,780 | 13 | 127 | 53 |
| LHD1 | 4.37% | 11 | 181 | 129 | 3 | 35 | 15 |
| LHD2 | 0.63% | 2 | 36 | 23 | 0 | 7 | 3 |
| MCY | 0.30% | 75 | 45 | 615 | 0 | 2 | 1 |
| MDV | 15.90% | 28 | 182 | 1,919 | 13 | 99 | 41 |
| MH | 0.38% | 1 | 37 | 9 | 0 | 4 | 2 |
| Motor Coach | 0.06% | 1 | 13 | 6 | 0 | 2 | 1 |
| OBUS | 0.04% | 0 | 1 | 1 | 0 | 0 | 0 |
| PTO | 0.04% | 1 | 10 | 4 | 0 | 0 | 0 |
| SBUS | 0.05% | 1 | 17 | 6 | 0 | 4 | 2 |
| T6 Ag | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 instate construction heavy | 0.05% | 1 | 7 | 3 | 0 | 1 | 1 |
| T6 instate construction small | 0.16% | 2 | 19 | 7 | 0 | 4 | 2 |
| T6 instate heavy | 0.29% | 3 | 40 | 14 | 0 | 7 | 4 |
| T6 instate small | 0.87% | 9 | 103 | 37 | 1 | 20 | 10 |
| T6 OOS heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 OOS small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 Public | 0.04% | 0 | 5 | 1 | 0 | 1 | 0 |
| T6 utility | 0.01% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6TS | 0.31% | 0 | 7 | 9 | 0 | 2 | 1 |
| T7 Ag | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 CAIRP | 0.28% | 7 | 74 | 33 | 1 | 6 | 3 |
| T7 CAIRP construction | 0.02% | 1 | 5 | 2 | 0 | 0 | 0 |
| T7 NNOOS | 0.32% | 7 | 67 | 33 | 1 | 6 | 4 |
| T7 NOOS | 0.10% | 3 | 27 | 12 | 0 | 2 | 1 |
| T7 other port | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 0.63% | 19 | 216 | 90 | 1 | 15 | 9 |
| T7 Public | 0.02% | 0 | 6 | 1 | 0 | 0 | 0 |
| T7 Single | 0.15% | 3 | 29 | 15 | 0 | 3 | 2 |
| T7 single construction | 0.05% | 1 | 10 | 5 | 0 | 1 | 1 |
| T7 SWCV | 0.05% | 1 | 18 | 4 | 0 | 1 | 1 |
| T7 tractor | 0.40% | 10 | 105 | 47 | 1 | 9 | 5 |
| T7 tractor construction | 0.04% | 1 | 10 | 5 | 0 | 1 | 0 |
| T7 utility | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7IS | 0.04% | 1 | 20 | 98 | 0 | 0 | 0 |
| UBUS | 0.24% | 6 | 132 | 34 | 1 | 22 | 11 |
| TOTAL | 100% | 276 | 1,967 | 8,974 | 64 | 718 | 311 |

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

Existing 2013

Based on EMFAC2011

| | Emission year | GWP | | GWP | | | |
|-------------------------------|----------------|-----------------|------------------|-----------------|-------------------|--------------------------------|------------------------------------|
| | 2035 | 2,116,734,700 | 310 | 1 | MTons | MTons | |
| | Percent of VMT | NO _x | N ₂ O | CO ₂ | CO ₂ e | CO ₂ w/Pavley + LCF | CO ₂ e w/ Pavley + LCFS |
| All Other Buses | 0% | 1 | 0 | 1,268 | 1,282 | 1,142 | 1,155 |
| LDA | 48% | 50 | 2 | 300,073 | 300,567 | 178,865 | 179,359 |
| LDT1 | 6% | 7 | 0 | 43,528 | 43,602 | 26,851 | 26,925 |
| LDT2 | 20% | 26 | 1 | 174,382 | 174,643 | 118,724 | 118,984 |
| LHD1 | 4% | 28 | 1 | 44,887 | 45,167 | 40,398 | 40,679 |
| LHD2 | 1% | 6 | 0 | 6,618 | 6,674 | 5,956 | 6,013 |
| MCY | 0% | 7 | 0 | 886 | 956 | 798 | 867 |
| MDV | 16% | 29 | 1 | 174,093 | 174,375 | 122,330 | 122,613 |
| MH | 0% | 6 | 0 | 4,780 | 4,837 | 4,302 | 4,359 |
| Motor Coach | 0% | 2 | 0 | 2,007 | 2,027 | 1,806 | 1,826 |
| OBUS | 0% | 0 | 0 | 430 | 431 | 387 | 388 |
| PTO | 0% | 2 | 0 | 1,630 | 1,646 | 1,467 | 1,483 |
| SBUS | 0% | 3 | 0 | 903 | 929 | 813 | 838 |
| T6 Ag | 0% | 0 | 0 | 35 | 36 | 32 | 32 |
| T6 CAIRP heavy | 0% | 0 | 0 | 24 | 24 | 21 | 22 |
| T6 CAIRP small | 0% | 0 | 0 | 82 | 83 | 74 | 75 |
| T6 instate construction heavy | 0% | 1 | 0 | 1,239 | 1,250 | 1,115 | 1,127 |
| T6 instate construction small | 0% | 3 | 0 | 3,663 | 3,693 | 3,297 | 3,327 |
| T6 instate heavy | 0% | 6 | 0 | 6,720 | 6,783 | 6,048 | 6,111 |
| T6 instate small | 1% | 16 | 1 | 19,826 | 19,986 | 17,843 | 18,003 |
| T6 OOS heavy | 0% | 0 | 0 | 14 | 14 | 12 | 12 |
| T6 OOS small | 0% | 0 | 0 | 47 | 48 | 43 | 43 |
| T6 Public | 0% | 1 | 0 | 920 | 928 | 828 | 835 |
| T6 utility | 0% | 0 | 0 | 158 | 159 | 142 | 143 |
| T6TS | 0% | 1 | 0 | 3,070 | 3,081 | 2,763 | 2,774 |
| T7 Ag | 0% | 0 | 0 | 69 | 69 | 62 | 62 |
| T7 CAIRP | 0% | 12 | 0 | 9,966 | 10,081 | 8,969 | 9,084 |
| T7 CAIRP construction | 0% | 1 | 0 | 719 | 728 | 647 | 656 |
| T7 NNOOS | 0% | 11 | 0 | 11,211 | 11,315 | 10,090 | 10,194 |
| T7 NOOS | 0% | 4 | 0 | 3,629 | 3,671 | 3,266 | 3,308 |
| T7 other port | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 1% | 34 | 1 | 22,195 | 22,530 | 19,976 | 20,310 |
| T7 Public | 0% | 1 | 0 | 651 | 661 | 586 | 596 |
| T7 Single | 0% | 4 | 0 | 5,361 | 5,405 | 4,825 | 4,869 |
| T7 single construction | 0% | 2 | 0 | 1,861 | 1,876 | 1,675 | 1,690 |
| T7 SWCV | 0% | 3 | 0 | 1,764 | 1,793 | 1,588 | 1,616 |
| T7 tractor | 0% | 17 | 1 | 14,061 | 14,225 | 12,655 | 12,818 |
| T7 tractor construction | 0% | 2 | 0 | 1,387 | 1,404 | 1,249 | 1,265 |
| T7 utility | 0% | 0 | 0 | 72 | 73 | 65 | 65 |
| T7IS | 0% | 3 | 0 | 370 | 400 | 333 | 363 |
| UBUS | 0% | 21 | 1 | 9,098 | 9,302 | 8,188 | 8,392 |
| TOTAL | 100% | 310 | 10 | 873,700 | 876,751 | 610,231 | 613,282 |

N₂O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N₂O with NO_x. (N₂O = 0.0167 + 0.0318 x NO_x)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

2006 General Plan

Based on EMFAC2011

| Emission year | Daily | lbs/day | | | | | |
|-------------------------------|----------------|------------|-----------------|---------------|-----------------|------------------|-------------------|
| 2035 | 7,152,000 | | | | | | |
| | Percent of VMT | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| All Other Buses | 0.06% | 1 | 10 | 3 | 0 | 2 | 1 |
| LDA | 47.75% | 54 | 374 | 4,090 | 26 | 349 | 145 |
| LDT1 | 5.96% | 9 | 55 | 632 | 4 | 44 | 18 |
| LDT2 | 20.40% | 29 | 197 | 2,087 | 15 | 149 | 62 |
| LHD1 | 4.37% | 13 | 212 | 151 | 4 | 41 | 18 |
| LHD2 | 0.63% | 3 | 43 | 27 | 1 | 8 | 4 |
| MCY | 0.30% | 88 | 53 | 721 | 0 | 2 | 1 |
| MDV | 15.90% | 33 | 213 | 2,250 | 15 | 116 | 48 |
| MH | 0.38% | 1 | 43 | 11 | 0 | 4 | 2 |
| Motor Coach | 0.06% | 2 | 15 | 7 | 0 | 2 | 1 |
| OBUS | 0.04% | 0 | 1 | 2 | 0 | 0 | 0 |
| PTO | 0.04% | 2 | 12 | 5 | 0 | 0 | 0 |
| SBUS | 0.05% | 1 | 20 | 7 | 0 | 4 | 2 |
| T6 Ag | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 instate construction heavy | 0.05% | 1 | 9 | 3 | 0 | 2 | 1 |
| T6 instate construction small | 0.16% | 2 | 22 | 8 | 0 | 4 | 2 |
| T6 instate heavy | 0.29% | 4 | 47 | 16 | 0 | 8 | 4 |
| T6 instate small | 0.87% | 10 | 121 | 43 | 1 | 24 | 12 |
| T6 OOS heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 OOS small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 Public | 0.04% | 0 | 6 | 2 | 0 | 1 | 1 |
| T6 utility | 0.01% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6TS | 0.31% | 0 | 8 | 10 | 0 | 2 | 1 |
| T7 Ag | 0.00% | 0 | 1 | 0 | 0 | 0 | 0 |
| T7 CAIRP | 0.28% | 8 | 87 | 39 | 1 | 7 | 4 |
| T7 CAIRP construction | 0.02% | 1 | 6 | 3 | 0 | 1 | 0 |
| T7 NNOOS | 0.32% | 8 | 78 | 38 | 1 | 7 | 4 |
| T7 NOOS | 0.10% | 3 | 32 | 14 | 0 | 3 | 1 |
| T7 other port | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 0.63% | 23 | 253 | 105 | 2 | 17 | 11 |
| T7 Public | 0.02% | 0 | 7 | 2 | 0 | 0 | 0 |
| T7 Single | 0.15% | 4 | 33 | 17 | 0 | 3 | 2 |
| T7 single construction | 0.05% | 1 | 12 | 6 | 0 | 1 | 1 |
| T7 SWCV | 0.05% | 1 | 21 | 5 | 0 | 1 | 1 |
| T7 tractor | 0.40% | 12 | 123 | 56 | 1 | 10 | 6 |
| T7 tractor construction | 0.04% | 1 | 12 | 5 | 0 | 1 | 1 |
| T7 utility | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7IS | 0.04% | 2 | 23 | 115 | 0 | 0 | 0 |
| UBUS | 0.24% | 6 | 154 | 40 | 1 | 26 | 12 |
| TOTAL | 100% | 323 | 2,306 | 10,522 | 75 | 841 | 365 |

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

2006 General Plan

Based on EMFAC2011

| | Emission year | GWP | | GWP | | | |
|-------------------------------|----------------|-----------------|------------------|------------------|-------------------|--------------------------------|------------------------------------|
| | 2035 | 2,481,744,000 | 310 | 1 | Mtons | Mtons | |
| | Percent of VMT | NO _x | N ₂ O | CO ₂ | CO ₂ e | CO ₂ w/Pavley + LCF | CO ₂ e w/ Pavley + LCFS |
| All Other Buses | 0% | 2 | 0 | 1,487 | 1,503 | 1,338 | 1,354 |
| LDA | 48% | 59 | 2 | 351,817 | 352,397 | 209,708 | 210,288 |
| LDT1 | 6% | 9 | 0 | 51,034 | 51,120 | 31,481 | 31,568 |
| LDT2 | 20% | 31 | 1 | 204,453 | 204,758 | 139,197 | 139,502 |
| LHD1 | 4% | 33 | 1 | 52,627 | 52,956 | 47,364 | 47,693 |
| LHD2 | 1% | 7 | 0 | 7,759 | 7,825 | 6,983 | 7,050 |
| MCY | 0% | 8 | 0 | 1,039 | 1,121 | 935 | 1,017 |
| MDV | 16% | 34 | 1 | 204,114 | 204,445 | 143,425 | 143,756 |
| MH | 0% | 7 | 0 | 5,604 | 5,671 | 5,044 | 5,111 |
| Motor Coach | 0% | 2 | 0 | 2,353 | 2,376 | 2,117 | 2,141 |
| OBUS | 0% | 0 | 0 | 504 | 505 | 453 | 455 |
| PTO | 0% | 2 | 0 | 1,912 | 1,930 | 1,720 | 1,739 |
| SBUS | 0% | 3 | 0 | 1,059 | 1,089 | 953 | 983 |
| T6 Ag | 0% | 0 | 0 | 42 | 42 | 37 | 38 |
| T6 CAIRP heavy | 0% | 0 | 0 | 28 | 28 | 25 | 25 |
| T6 CAIRP small | 0% | 0 | 0 | 97 | 97 | 87 | 88 |
| T6 instate construction heavy | 0% | 1 | 0 | 1,453 | 1,466 | 1,307 | 1,321 |
| T6 instate construction small | 0% | 4 | 0 | 4,295 | 4,330 | 3,866 | 3,900 |
| T6 instate heavy | 0% | 7 | 0 | 7,879 | 7,952 | 7,091 | 7,164 |
| T6 instate small | 1% | 19 | 1 | 23,245 | 23,432 | 20,920 | 21,108 |
| T6 OOS heavy | 0% | 0 | 0 | 16 | 16 | 14 | 15 |
| T6 OOS small | 0% | 0 | 0 | 55 | 56 | 50 | 50 |
| T6 Public | 0% | 1 | 0 | 1,079 | 1,087 | 971 | 980 |
| T6 utility | 0% | 0 | 0 | 186 | 187 | 167 | 168 |
| T6TS | 0% | 1 | 0 | 3,600 | 3,612 | 3,240 | 3,252 |
| T7 Ag | 0% | 0 | 0 | 80 | 81 | 72 | 73 |
| T7 CAIRP | 0% | 14 | 0 | 11,684 | 11,819 | 10,516 | 10,651 |
| T7 CAIRP construction | 0% | 1 | 0 | 843 | 853 | 759 | 769 |
| T7 NNOOS | 0% | 12 | 0 | 13,144 | 13,266 | 11,830 | 11,952 |
| T7 NOOS | 0% | 5 | 0 | 4,255 | 4,304 | 3,830 | 3,879 |
| T7 other port | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 1% | 40 | 1 | 26,023 | 26,415 | 23,420 | 23,812 |
| T7 Public | 0% | 1 | 0 | 763 | 775 | 687 | 698 |
| T7 Single | 0% | 5 | 0 | 6,286 | 6,337 | 5,657 | 5,709 |
| T7 single construction | 0% | 2 | 0 | 2,182 | 2,200 | 1,964 | 1,982 |
| T7 SWCV | 0% | 3 | 0 | 2,068 | 2,102 | 1,862 | 1,895 |
| T7 tractor | 0% | 19 | 1 | 16,486 | 16,678 | 14,838 | 15,029 |
| T7 tractor construction | 0% | 2 | 0 | 1,627 | 1,646 | 1,464 | 1,483 |
| T7 utility | 0% | 0 | 0 | 85 | 85 | 76 | 77 |
| T7IS | 0% | 4 | 0 | 434 | 469 | 391 | 426 |
| UBUS | 0% | 24 | 1 | 10,666 | 10,906 | 9,600 | 9,839 |
| TOTAL | 100% | 363 | 12 | 1,024,360 | 1,027,938 | 715,459 | 719,037 |

N₂O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N₂O with NO_x. (N₂O = 0.0167 + 0.0318 x NO_x)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

Project

Based on EMFAC2011

| Emission year | Daily | lbs/day | | | | | |
|-------------------------------|----------------|------------|-----------------|---------------|-----------------|------------------|-------------------|
| 2035 | 7,208,500 | | | | | | |
| | Percent of VMT | ROG | NO _x | CO | SO _x | PM ₁₀ | PM _{2.5} |
| All Other Buses | 0.06% | 1 | 10 | 3 | 0 | 2 | 1 |
| LDA | 47.75% | 54 | 376 | 4,123 | 27 | 352 | 146 |
| LDT1 | 5.96% | 9 | 56 | 637 | 4 | 44 | 18 |
| LDT2 | 20.40% | 29 | 198 | 2,103 | 15 | 150 | 63 |
| LHD1 | 4.37% | 13 | 213 | 153 | 4 | 41 | 18 |
| LHD2 | 0.63% | 3 | 43 | 27 | 1 | 8 | 4 |
| MCY | 0.30% | 89 | 53 | 727 | 0 | 2 | 1 |
| MDV | 15.90% | 33 | 215 | 2,267 | 15 | 117 | 49 |
| MH | 0.38% | 1 | 44 | 11 | 0 | 4 | 2 |
| Motor Coach | 0.06% | 2 | 15 | 7 | 0 | 2 | 1 |
| OBUS | 0.04% | 0 | 1 | 2 | 0 | 0 | 0 |
| PTO | 0.04% | 2 | 12 | 5 | 0 | 0 | 0 |
| SBUS | 0.05% | 1 | 20 | 7 | 0 | 4 | 2 |
| T6 Ag | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 CAIRP small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 instate construction heavy | 0.05% | 1 | 9 | 3 | 0 | 2 | 1 |
| T6 instate construction small | 0.16% | 2 | 22 | 8 | 0 | 4 | 2 |
| T6 instate heavy | 0.29% | 4 | 48 | 16 | 0 | 8 | 4 |
| T6 instate small | 0.87% | 11 | 122 | 44 | 1 | 24 | 12 |
| T6 OOS heavy | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 OOS small | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T6 Public | 0.04% | 0 | 6 | 2 | 0 | 1 | 1 |
| T6 utility | 0.01% | 0 | 1 | 0 | 0 | 0 | 0 |
| T6TS | 0.31% | 1 | 8 | 10 | 0 | 2 | 1 |
| T7 Ag | 0.00% | 0 | 1 | 0 | 0 | 0 | 0 |
| T7 CAIRP | 0.28% | 9 | 88 | 40 | 1 | 7 | 4 |
| T7 CAIRP construction | 0.02% | 1 | 6 | 3 | 0 | 1 | 0 |
| T7 NNOOS | 0.32% | 8 | 79 | 39 | 1 | 7 | 4 |
| T7 NOOS | 0.10% | 3 | 32 | 14 | 0 | 3 | 2 |
| T7 other port | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 0.63% | 23 | 255 | 106 | 2 | 17 | 11 |
| T7 Public | 0.02% | 0 | 7 | 2 | 0 | 0 | 0 |
| T7 Single | 0.15% | 4 | 34 | 17 | 0 | 3 | 2 |
| T7 single construction | 0.05% | 1 | 12 | 6 | 0 | 1 | 1 |
| T7 SWCV | 0.05% | 1 | 22 | 5 | 0 | 1 | 1 |
| T7 tractor | 0.40% | 12 | 124 | 56 | 1 | 10 | 6 |
| T7 tractor construction | 0.04% | 1 | 12 | 6 | 0 | 1 | 1 |
| T7 utility | 0.00% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7IS | 0.04% | 2 | 23 | 116 | 0 | 0 | 0 |
| UBUS | 0.24% | 7 | 155 | 40 | 1 | 26 | 12 |
| TOTAL | 100% | 326 | 2,324 | 10,605 | 75 | 848 | 368 |

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

Project

Based on EMFAC2011

| | Emission year | GWP | | GWP | | | |
|-------------------------------|----------------|-----------------|------------------|------------------|-------------------|--------------------------------|------------------------------------|
| | 2035 | 2,501,349,500 | 310 | 1 | Mtons | Mtons | Mtons |
| | Percent of VMT | NO _x | N ₂ O | CO ₂ | CO ₂ e | CO ₂ w/Pavley + LCF | CO ₂ e w/ Pavley + LCFS |
| All Other Buses | 0% | 2 | 0 | 1,499 | 1,515 | 1,349 | 1,365 |
| LDA | 48% | 59 | 2 | 354,597 | 355,181 | 211,365 | 211,949 |
| LDT1 | 6% | 9 | 0 | 51,437 | 51,524 | 31,730 | 31,817 |
| LDT2 | 20% | 31 | 1 | 206,068 | 206,376 | 140,296 | 140,604 |
| LHD1 | 4% | 34 | 1 | 53,043 | 53,374 | 47,739 | 48,070 |
| LHD2 | 1% | 7 | 0 | 7,820 | 7,887 | 7,038 | 7,105 |
| MCY | 0% | 8 | 0 | 1,048 | 1,130 | 943 | 1,025 |
| MDV | 16% | 34 | 1 | 205,726 | 206,060 | 144,558 | 144,892 |
| MH | 0% | 7 | 0 | 5,648 | 5,716 | 5,083 | 5,151 |
| Motor Coach | 0% | 2 | 0 | 2,371 | 2,395 | 2,134 | 2,158 |
| OBUS | 0% | 0 | 0 | 508 | 509 | 457 | 459 |
| PTO | 0% | 2 | 0 | 1,927 | 1,945 | 1,734 | 1,753 |
| SBUS | 0% | 3 | 0 | 1,067 | 1,098 | 960 | 991 |
| T6 Ag | 0% | 0 | 0 | 42 | 42 | 38 | 38 |
| T6 CAIRP heavy | 0% | 0 | 0 | 28 | 28 | 25 | 26 |
| T6 CAIRP small | 0% | 0 | 0 | 97 | 98 | 88 | 88 |
| T6 instate construction heavy | 0% | 1 | 0 | 1,464 | 1,478 | 1,318 | 1,331 |
| T6 instate construction small | 0% | 4 | 0 | 4,329 | 4,364 | 3,896 | 3,931 |
| T6 instate heavy | 0% | 7 | 0 | 7,941 | 8,015 | 7,147 | 7,221 |
| T6 instate small | 1% | 19 | 1 | 23,428 | 23,617 | 21,086 | 21,274 |
| T6 OOS heavy | 0% | 0 | 0 | 16 | 16 | 15 | 15 |
| T6 OOS small | 0% | 0 | 0 | 56 | 56 | 50 | 51 |
| T6 Public | 0% | 1 | 0 | 1,087 | 1,096 | 979 | 987 |
| T6 utility | 0% | 0 | 0 | 187 | 188 | 168 | 169 |
| T6TS | 0% | 1 | 0 | 3,628 | 3,641 | 3,265 | 3,278 |
| T7 Ag | 0% | 0 | 0 | 81 | 82 | 73 | 74 |
| T7 CAIRP | 0% | 14 | 0 | 11,776 | 11,912 | 10,599 | 10,735 |
| T7 CAIRP construction | 0% | 1 | 0 | 850 | 860 | 765 | 775 |
| T7 NNOOS | 0% | 12 | 0 | 13,248 | 13,371 | 11,923 | 12,046 |
| T7 NOOS | 0% | 5 | 0 | 4,289 | 4,338 | 3,860 | 3,909 |
| T7 other port | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POAK | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| T7 POLA | 1% | 40 | 1 | 26,228 | 26,623 | 23,605 | 24,001 |
| T7 Public | 0% | 1 | 0 | 769 | 781 | 692 | 704 |
| T7 Single | 0% | 5 | 0 | 6,335 | 6,388 | 5,702 | 5,754 |
| T7 single construction | 0% | 2 | 0 | 2,199 | 2,217 | 1,979 | 1,997 |
| T7 SWCV | 0% | 3 | 0 | 2,085 | 2,118 | 1,876 | 1,910 |
| T7 tractor | 0% | 20 | 1 | 16,616 | 16,809 | 14,955 | 15,148 |
| T7 tractor construction | 0% | 2 | 0 | 1,639 | 1,659 | 1,476 | 1,495 |
| T7 utility | 0% | 0 | 0 | 85 | 86 | 77 | 77 |
| T7IS | 0% | 4 | 0 | 437 | 473 | 394 | 429 |
| UBUS | 0% | 24 | 1 | 10,751 | 10,992 | 9,676 | 9,917 |
| TOTAL | 100% | 366 | 12 | 1,032,453 | 1,036,058 | 721,111 | 724,717 |

N₂O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N₂O with NO_x. (N₂O = 0.0167 + 0.0318 x NO_x)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Based on the emission factors for Orange County - South Coast Air Basin. % VMT based on EMFAC2011-SG for Orange County.

| Season | Veh | Fuel | MdlYr | Speed | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | PM10_PMT | | | PM10_Total | PM2_5_PMT | | | PM2_5_Tota | CO2(Pavley I + LCFS)_RUNEX | | VMT from EMFAC-SG | %VMT |
|--------|-------------------------------|------|--------|--------|-----------|-----------|----------|-----------|----------|----------|----------|------------|-----------|----------|----------|------------|----------------------------|----------|-------------------|------|
| | | | | | | | | | W | W | X | | W | W | EX | | I | X | | |
| Annual | All Other Buses | TOT | AlIMYr | 40 MPH | 2.64E-01 | 7.84E+00 | 1.07E+00 | 1.08E-02 | 1.20E-02 | 1.30E-01 | 2.09E-01 | 3.51E-01 | 3.00E-03 | 5.59E-02 | 1.92E-01 | 2.51E-01 | 1.11E+03 | 1.10E+03 | 31,189 | 0% |
| Annual | LDA | TOT | AlIMYr | 40 MPH | 3.22E-02 | 1.18E-01 | 1.30E+00 | 3.49E-03 | 8.00E-03 | 3.67E-02 | 1.64E-03 | 4.64E-02 | 2.00E-03 | 1.57E-02 | 1.50E-03 | 1.92E-02 | 2.96E+02 | 2.72E+02 | 39,232,799 | 51% |
| Annual | LDT1 | TOT | AlIMYr | 40 MPH | 7.54E-02 | 2.79E-01 | 2.85E+00 | 4.05E-03 | 8.00E-03 | 3.67E-02 | 3.53E-03 | 4.83E-02 | 2.00E-03 | 1.57E-02 | 3.23E-03 | 2.10E-02 | 3.41E+02 | 3.17E+02 | 4,401,259 | 6% |
| Annual | LDT2 | TOT | AlIMYr | 40 MPH | 3.33E-02 | 2.02E-01 | 1.71E+00 | 4.76E-03 | 8.00E-03 | 3.67E-02 | 1.49E-03 | 4.62E-02 | 2.00E-03 | 1.57E-02 | 1.36E-03 | 1.91E-02 | 4.04E+02 | 3.81E+02 | 14,630,225 | 19% |
| Annual | LHD1 | TOT | AlIMYr | 40 MPH | 9.28E-02 | 1.25E+00 | 1.21E+00 | 5.70E-03 | 8.97E-03 | 4.63E-02 | 9.01E-03 | 6.43E-02 | 2.24E-03 | 1.99E-02 | 8.29E-03 | 3.04E-02 | 4.87E+02 | 4.82E+02 | 3,100,804 | 4% |
| Annual | LHD2 | TOT | AlIMYr | 40 MPH | 1.04E-01 | 1.93E+00 | 1.02E+00 | 5.48E-03 | 9.96E-03 | 6.24E-02 | 1.74E-02 | 8.97E-02 | 2.49E-03 | 2.67E-02 | 1.60E-02 | 4.52E-02 | 5.00E+02 | 4.95E+02 | 450,035 | 1% |
| Annual | MCY | TOT | AlIMYr | 40 MPH | 2.10E+00 | 1.19E+00 | 1.96E+01 | 1.91E-03 | 8.00E-03 | 3.67E-02 | 6.74E-04 | 4.54E-02 | 2.00E-03 | 1.57E-02 | 5.36E-04 | 1.83E-02 | 1.29E+02 | 1.27E+02 | 355,527 | 0% |
| Annual | MDV | TOT | AlIMYr | 40 MPH | 5.27E-02 | 3.06E-01 | 2.35E+00 | 6.05E-03 | 8.00E-03 | 3.67E-02 | 1.67E-03 | 4.64E-02 | 2.00E-03 | 1.57E-02 | 1.54E-03 | 1.93E-02 | 5.13E+02 | 4.92E+02 | 11,868,955 | 16% |
| Annual | MH | TOT | AlIMYr | 40 MPH | 1.68E-01 | 2.12E+00 | 4.97E+00 | 6.81E-03 | 8.74E-03 | 5.41E-02 | 2.98E-02 | 9.27E-02 | 2.19E-03 | 2.32E-02 | 2.74E-02 | 5.28E-02 | 5.92E+02 | 5.86E+02 | 169,474 | 0% |
| Annual | Motor Coach | TOT | AlIMYr | 40 MPH | 2.94E-01 | 1.01E+01 | 1.47E+00 | 1.64E-02 | 1.20E-02 | 1.30E-01 | 2.17E-01 | 3.59E-01 | 3.00E-03 | 5.59E-02 | 2.00E-01 | 2.59E-01 | 1.71E+03 | 1.69E+03 | 31,486 | 0% |
| Annual | OBUS | TOT | AlIMYr | 40 MPH | 1.34E-01 | 1.32E+00 | 2.80E+00 | 5.85E-03 | 8.00E-03 | 3.67E-02 | 7.62E-04 | 4.55E-02 | 2.00E-03 | 1.57E-02 | 6.94E-04 | 1.84E-02 | 4.75E+02 | 4.70E+02 | 45,448 | 0% |
| Annual | PTO | TOT | AlIMYr | 40 MPH | 7.21E-01 | 1.31E+01 | 3.37E+00 | 2.05E-02 | | | 4.05E-01 | 4.05E-01 | | | 3.72E-01 | 3.72E-01 | 2.15E+03 | 2.13E+03 | 18,702 | 0% |
| Annual | SBUS | TOT | AlIMYr | 40 MPH | 3.66E-01 | 7.49E+00 | 5.34E+00 | 1.11E-02 | 1.09E-02 | 5.50E-01 | 1.17E-01 | 6.78E-01 | 2.72E-03 | 2.36E-01 | 1.08E-01 | 3.46E-01 | 9.35E+02 | 9.25E+02 | 39,699 | 0% |
| Annual | T6 Ag | TOT | AlIMYr | 40 MPH | 3.89E-01 | 8.02E+00 | 1.55E+00 | 1.08E-02 | 1.20E-02 | 1.30E-01 | 3.13E-01 | 4.56E-01 | 3.00E-03 | 5.59E-02 | 2.88E-01 | 3.47E-01 | 1.11E+03 | 1.10E+03 | 1,361 | 0% |
| Annual | T6 CAIRP heavy | TOT | AlIMYr | 40 MPH | 1.49E-01 | 5.16E+00 | 6.45E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.07E-01 | 2.49E-01 | 3.00E-03 | 5.59E-02 | 9.80E-02 | 1.57E-01 | 1.10E+03 | 1.09E+03 | 638 | 0% |
| Annual | T6 CAIRP small | TOT | AlIMYr | 40 MPH | 1.50E-01 | 3.74E+00 | 6.41E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.07E-01 | 2.50E-01 | 3.00E-03 | 5.59E-02 | 9.87E-02 | 1.58E-01 | 1.10E+03 | 1.09E+03 | 2,102 | 0% |
| Annual | T6 instate construction heavy | TOT | AlIMYr | 40 MPH | 2.40E-01 | 7.57E+00 | 1.06E+00 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.80E-01 | 3.23E-01 | 3.00E-03 | 5.59E-02 | 1.66E-01 | 2.25E-01 | 1.10E+03 | 1.09E+03 | 34,233 | 0% |
| Annual | T6 instate construction small | TOT | AlIMYr | 40 MPH | 1.99E-01 | 5.23E+00 | 8.69E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.53E-01 | 2.95E-01 | 3.00E-03 | 5.59E-02 | 1.41E-01 | 1.99E-01 | 1.10E+03 | 1.09E+03 | 91,365 | 0% |
| Annual | T6 instate heavy | TOT | AlIMYr | 40 MPH | 2.32E-01 | 7.24E+00 | 1.02E+00 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.73E-01 | 3.16E-01 | 3.00E-03 | 5.59E-02 | 1.59E-01 | 2.18E-01 | 1.10E+03 | 1.09E+03 | 193,491 | 0% |
| Annual | T6 instate small | TOT | AlIMYr | 40 MPH | 1.89E-01 | 4.91E+00 | 8.27E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.44E-01 | 2.86E-01 | 3.00E-03 | 5.59E-02 | 1.32E-01 | 1.91E-01 | 1.10E+03 | 1.09E+03 | 528,976 | 1% |
| Annual | T6 OOS heavy | TOT | AlIMYr | 40 MPH | 1.49E-01 | 5.16E+00 | 6.45E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.07E-01 | 2.49E-01 | 3.00E-03 | 5.59E-02 | 9.80E-02 | 1.57E-01 | 1.10E+03 | 1.09E+03 | 365 | 0% |
| Annual | T6 OOS small | TOT | AlIMYr | 40 MPH | 1.50E-01 | 3.74E+00 | 6.41E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.07E-01 | 2.50E-01 | 3.00E-03 | 5.59E-02 | 9.87E-02 | 1.58E-01 | 1.10E+03 | 1.09E+03 | 1,205 | 0% |
| Annual | T6 Public | TOT | AlIMYr | 40 MPH | 4.52E-02 | 7.71E+00 | 1.90E-01 | 1.09E-02 | 1.20E-02 | 1.30E-01 | 3.20E-02 | 1.74E-01 | 3.00E-03 | 5.59E-02 | 2.95E-02 | 8.83E-02 | 1.12E+03 | 1.11E+03 | 21,279 | 0% |
| Annual | T6 utility | TOT | AlIMYr | 40 MPH | 1.06E-01 | 5.37E+00 | 4.72E-01 | 1.07E-02 | 1.20E-02 | 1.30E-01 | 1.03E-01 | 2.45E-01 | 3.00E-03 | 5.59E-02 | 9.48E-02 | 1.54E-01 | 1.10E+03 | 1.09E+03 | 3,867 | 0% |
| Annual | T6TS | TOT | AlIMYr | 40 MPH | 2.22E-01 | 1.72E+00 | 4.61E+00 | 5.89E-03 | 8.00E-03 | 3.67E-02 | 1.49E-03 | 4.62E-02 | 2.00E-03 | 1.57E-02 | 1.36E-03 | 1.91E-02 | 4.75E+02 | 4.70E+02 | 208,777 | 0% |
| Annual | T7 Ag | TOT | AlIMYr | 40 MPH | 5.25E-01 | 1.38E+01 | 3.04E+00 | 1.66E-02 | 3.60E-02 | 6.17E-02 | 4.32E-01 | 5.29E-01 | 9.00E-03 | 2.65E-02 | 3.97E-01 | 4.33E-01 | 1.72E+03 | 1.70E+03 | 1,712 | 0% |
| Annual | T7 CAIRP | TOT | AlIMYr | 40 MPH | 4.02E-01 | 8.17E+00 | 1.91E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 2.49E-01 | 3.47E-01 | 9.00E-03 | 2.65E-02 | 2.29E-01 | 2.65E-01 | 1.70E+03 | 1.68E+03 | 144,759 | 0% |
| Annual | T7 CAIRP construction | TOT | AlIMYr | 40 MPH | 4.09E-01 | 8.36E+00 | 1.95E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 2.55E-01 | 3.53E-01 | 9.00E-03 | 2.65E-02 | 2.34E-01 | 2.70E-01 | 1.70E+03 | 1.69E+03 | 11,924 | 0% |
| Annual | T7 NNOOS | TOT | AlIMYr | 40 MPH | 2.62E-01 | 4.56E+00 | 1.22E+00 | 1.63E-02 | 3.60E-02 | 6.17E-02 | 1.34E-01 | 2.31E-01 | 9.00E-03 | 2.65E-02 | 1.23E-01 | 1.58E-01 | 1.69E+03 | 1.67E+03 | 162,848 | 0% |
| Annual | T7 NOOS | TOT | AlIMYr | 40 MPH | 3.76E-01 | 8.17E+00 | 1.78E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 2.30E-01 | 3.28E-01 | 9.00E-03 | 2.65E-02 | 2.12E-01 | 2.47E-01 | 1.70E+03 | 1.69E+03 | 52,717 | 0% |
| Annual | T7 other port | TOT | AlIMYr | 40 MPH | | | | | | | 0.00E+00 | | | | 0.00E+00 | | | 0 | 0% | |
| Annual | T7 POAK | TOT | AlIMYr | 40 MPH | | | | | | | 0.00E+00 | | | | 0.00E+00 | | | 0 | 0% | |
| Annual | T7 POLA | TOT | AlIMYr | 40 MPH | 3.01E-01 | 7.97E+00 | 1.39E+00 | 1.66E-02 | 3.60E-02 | 6.17E-02 | 7.62E-02 | 1.74E-01 | 9.00E-03 | 2.65E-02 | 7.01E-02 | 1.06E-01 | 1.73E+03 | 1.71E+03 | 173,854 | 0% |
| Annual | T7 Public | TOT | AlIMYr | 40 MPH | 7.21E-02 | 1.44E+01 | 4.08E-01 | 1.68E-02 | 3.60E-02 | 6.17E-02 | 5.89E-02 | 1.57E-01 | 9.00E-03 | 2.65E-02 | 5.41E-02 | 8.96E-02 | 1.74E+03 | 1.72E+03 | 9,771 | 0% |
| Annual | T7 Single | TOT | AlIMYr | 40 MPH | 3.37E-01 | 1.13E+01 | 1.88E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 2.43E-01 | 3.41E-01 | 9.00E-03 | 2.65E-02 | 2.23E-01 | 2.59E-01 | 1.70E+03 | 1.68E+03 | 77,872 | 0% |
| Annual | T7 single construction | TOT | AlIMYr | 40 MPH | 3.42E-01 | 1.16E+01 | 1.90E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 2.47E-01 | 3.45E-01 | 9.00E-03 | 2.65E-02 | 2.28E-01 | 2.63E-01 | 1.70E+03 | 1.68E+03 | 30,845 | 0% |
| Annual | T7 SWCV | TOT | AlIMYr | 40 MPH | 1.01E-01 | 1.32E+01 | 5.62E-01 | 1.68E-02 | 3.60E-02 | 6.17E-02 | 7.51E-02 | 1.73E-01 | 9.00E-03 | 2.65E-02 | 6.91E-02 | 1.05E-01 | 1.75E+03 | 1.73E+03 | 26,475 | 0% |
| Annual | T7 tractor | TOT | AlIMYr | 40 MPH | 4.90E-01 | 1.12E+01 | 2.61E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 3.35E-01 | 4.33E-01 | 9.00E-03 | 2.65E-02 | 3.08E-01 | 3.44E-01 | 1.70E+03 | 1.69E+03 | 204,246 | 0% |
| Annual | T7 tractor construction | TOT | AlIMYr | 40 MPH | 5.17E-01 | 1.17E+01 | 2.78E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 3.51E-01 | 4.49E-01 | 9.00E-03 | 2.65E-02 | 3.23E-01 | 3.59E-01 | 1.70E+03 | 1.69E+03 | 22,997 | 0% |
| Annual | T7 utility | TOT | AlIMYr | 40 MPH | 1.95E-01 | 1.03E+01 | 1.04E+00 | 1.64E-02 | 3.60E-02 | 6.17E-02 | 1.70E-01 | 2.67E-01 | 9.00E-03 | 2.65E-02 | 1.56E-01 | 1.91E-01 | 1.70E+03 | 1.68E+03 | 1,146 | 0% |
| Annual | T7IS | TOT | AlIMYr | 40 MPH | 6.97E-01 | 5.05E+00 | 2.39E+01 | 6.28E-03 | 8.00E-03 | 3.67E-02 | 8.26E-04 | 4.56E-02 | 2.00E-03 | 1.57E-02 | 7.07E-04 | 1.85E-02 | 4.75E+02 | 4.70E+02 | 21,946 | 0% |
| Annual | UBUS | TOT | AlIMYr | 40 MPH | 4.56E-01 | 8.87E+00 | 3.79E+00 | 1.96E-02 | 8.00E-03 | 6.34E-01 | 1.11E-01 | 7.53E-01 | 2.00E-03 | 2.72E-01 | 1.02E-01 | 3.76E-01 | 1.96E+03 | 1.94E+03 | 162,849 | 0% |
| | | | | | | | | | | | | | | | | | | | 76,569,224 | 100% |

| Season | Veh | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | PM10_PMT W | PM10_PMB W | PM10_RUNE X | PM10_Total | PM2_5_PMT W | PM2_5_PMB W | PM2_5_RUN EX | PM2_5_Total | CO2_RUNEX | CO2(Pavley I + LCFS)_RUNEX |
|--------|-------------------------------|-----------|-----------|-----------|-----------|---------------|---------------|----------------|------------|----------------|----------------|-----------------|-------------|-----------|----------------------------------|
| Annual | All Other Buses | 5.825E-04 | 1.729E-02 | 2.360E-03 | 2.379E-05 | 2.646E-05 | 2.873E-04 | 4.607E-04 | 7.745E-04 | 6.614E-06 | 1.231E-04 | 4.238E-04 | 5.536E-04 | 2.451E+00 | 2.427E+00 |
| Annual | LDA | 7.095E-05 | 2.612E-04 | 2.875E-03 | 7.691E-06 | 1.764E-05 | 8.102E-05 | 3.621E-06 | 1.023E-04 | 4.409E-06 | 3.472E-05 | 3.299E-06 | 4.243E-05 | 6.527E-01 | 5.988E-01 |
| Annual | LDT1 | 1.662E-04 | 6.148E-04 | 6.280E-03 | 8.922E-06 | 1.764E-05 | 8.102E-05 | 7.779E-06 | 1.064E-04 | 4.409E-06 | 3.472E-05 | 7.116E-06 | 4.625E-05 | 7.523E-01 | 6.992E-01 |
| Annual | LDT2 | 7.337E-05 | 4.460E-04 | 3.760E-03 | 1.050E-05 | 1.764E-05 | 8.102E-05 | 3.276E-06 | 1.019E-04 | 4.409E-06 | 3.472E-05 | 3.007E-06 | 4.214E-05 | 8.911E-01 | 8.393E-01 |
| Annual | LHD1 | 2.046E-04 | 2.746E-03 | 2.666E-03 | 1.256E-05 | 1.977E-05 | 1.021E-04 | 1.986E-05 | 1.418E-04 | 4.942E-06 | 4.378E-05 | 1.828E-05 | 6.699E-05 | 1.073E+00 | 1.062E+00 |
| Annual | LHD2 | 2.286E-04 | 4.261E-03 | 2.248E-03 | 1.207E-05 | 2.195E-05 | 1.375E-04 | 3.829E-05 | 1.978E-04 | 5.487E-06 | 5.894E-05 | 3.521E-05 | 9.965E-05 | 1.101E+00 | 1.090E+00 |
| Annual | MCY | 4.627E-03 | 2.625E-03 | 4.332E-02 | 4.209E-06 | 1.763E-05 | 8.101E-05 | 1.487E-06 | 1.001E-04 | 4.409E-06 | 3.472E-05 | 1.182E-06 | 4.031E-05 | 2.839E-01 | 2.811E-01 |
| Annual | MDV | 1.163E-04 | 6.748E-04 | 5.177E-03 | 1.334E-05 | 1.764E-05 | 8.102E-05 | 3.684E-06 | 1.023E-04 | 4.409E-06 | 3.472E-05 | 3.389E-06 | 4.252E-05 | 1.132E+00 | 1.085E+00 |
| Annual | MH | 3.709E-04 | 4.666E-03 | 1.096E-02 | 1.501E-05 | 1.927E-05 | 1.193E-04 | 6.581E-05 | 2.044E-04 | 4.818E-06 | 5.112E-05 | 6.043E-05 | 1.164E-04 | 1.305E+00 | 1.292E+00 |
| Annual | Motor Coach | 6.474E-04 | 2.233E-02 | 3.237E-03 | 3.622E-05 | 2.646E-05 | 2.873E-04 | 4.785E-04 | 7.923E-04 | 6.614E-06 | 1.231E-04 | 4.402E-04 | 5.700E-04 | 3.760E+00 | 3.722E+00 |
| Annual | OBUS | 2.950E-04 | 2.917E-03 | 6.170E-03 | 1.290E-05 | 1.764E-05 | 8.102E-05 | 1.680E-06 | 1.003E-04 | 4.409E-06 | 3.472E-05 | 1.530E-06 | 4.066E-05 | 1.048E+00 | 1.037E+00 |
| Annual | PTO | 1.589E-03 | 2.897E-02 | 7.435E-03 | 4.522E-05 | 0.000E+00 | 0.000E+00 | 8.923E-04 | 8.923E-04 | 0.000E+00 | 0.000E+00 | 8.209E-04 | 8.209E-04 | 4.738E+00 | 4.690E+00 |
| Annual | SBUS | 8.079E-04 | 1.652E-02 | 1.177E-02 | 2.439E-05 | 2.403E-05 | 1.212E-03 | 2.583E-04 | 1.495E-03 | 6.007E-06 | 5.196E-04 | 2.374E-04 | 7.631E-04 | 2.061E+00 | 2.040E+00 |
| Annual | T6 Ag | 8.579E-04 | 1.767E-02 | 3.414E-03 | 2.378E-05 | 2.646E-05 | 2.873E-04 | 6.906E-04 | 1.004E-03 | 6.614E-06 | 1.231E-04 | 6.354E-04 | 7.651E-04 | 2.451E+00 | 2.427E+00 |
| Annual | T6 CAIRP heavy | 3.290E-04 | 1.138E-02 | 1.422E-03 | 2.356E-05 | 2.646E-05 | 2.873E-04 | 2.349E-04 | 5.487E-04 | 6.614E-06 | 1.231E-04 | 2.161E-04 | 3.458E-04 | 2.428E+00 | 2.404E+00 |
| Annual | T6 CAIRP small | 3.296E-04 | 8.247E-03 | 1.414E-03 | 2.349E-05 | 2.646E-05 | 2.873E-04 | 2.364E-04 | 5.502E-04 | 6.614E-06 | 1.231E-04 | 2.175E-04 | 3.473E-04 | 2.421E+00 | 2.397E+00 |
| Annual | T6 instate construction heavy | 5.295E-04 | 1.669E-02 | 2.327E-03 | 2.362E-05 | 2.646E-05 | 2.873E-04 | 3.976E-04 | 7.114E-04 | 6.614E-06 | 1.231E-04 | 3.658E-04 | 4.956E-04 | 2.434E+00 | 2.409E+00 |
| Annual | T6 instate construction small | 4.379E-04 | 1.153E-02 | 1.915E-03 | 2.352E-05 | 2.646E-05 | 2.873E-04 | 3.370E-04 | 6.508E-04 | 6.614E-06 | 1.231E-04 | 3.100E-04 | 4.398E-04 | 2.424E+00 | 2.400E+00 |
| Annual | T6 instate heavy | 5.121E-04 | 1.596E-02 | 2.249E-03 | 2.359E-05 | 2.646E-05 | 2.873E-04 | 3.818E-04 | 6.956E-04 | 6.614E-06 | 1.231E-04 | 3.513E-04 | 4.810E-04 | 2.431E+00 | 2.407E+00 |
| Annual | T6 instate small | 4.174E-04 | 1.083E-02 | 1.823E-03 | 2.350E-05 | 2.646E-05 | 2.873E-04 | 3.170E-04 | 6.308E-04 | 6.614E-06 | 1.231E-04 | 2.916E-04 | 4.214E-04 | 2.422E+00 | 2.398E+00 |
| Annual | T6 OOS heavy | 3.290E-04 | 1.138E-02 | 1.422E-03 | 2.356E-05 | 2.646E-05 | 2.873E-04 | 2.349E-04 | 5.487E-04 | 6.614E-06 | 1.231E-04 | 2.161E-04 | 3.458E-04 | 2.428E+00 | 2.404E+00 |
| Annual | T6 OOS small | 3.296E-04 | 8.247E-03 | 1.414E-03 | 2.349E-05 | 2.646E-05 | 2.873E-04 | 2.364E-04 | 5.502E-04 | 6.614E-06 | 1.231E-04 | 2.175E-04 | 3.473E-04 | 2.421E+00 | 2.397E+00 |
| Annual | T6 Public | 9.967E-05 | 1.699E-02 | 4.196E-04 | 2.397E-05 | 2.646E-05 | 2.873E-04 | 7.065E-05 | 3.845E-04 | 6.614E-06 | 1.231E-04 | 6.500E-05 | 1.948E-04 | 2.470E+00 | 2.445E+00 |
| Annual | T6 utility | 2.343E-04 | 1.184E-02 | 1.040E-03 | 2.352E-05 | 2.646E-05 | 2.873E-04 | 2.271E-04 | 5.409E-04 | 6.614E-06 | 1.231E-04 | 2.089E-04 | 3.387E-04 | 2.424E+00 | 2.400E+00 |
| Annual | T6TS | 4.888E-04 | 3.794E-03 | 1.016E-02 | 1.299E-05 | 1.764E-05 | 8.102E-05 | 3.296E-06 | 1.020E-04 | 4.409E-06 | 3.472E-05 | 2.993E-06 | 4.212E-05 | 1.048E+00 | 1.037E+00 |
| Annual | T7 Ag | 1.156E-03 | 3.040E-02 | 6.699E-03 | 3.650E-05 | 7.937E-05 | 1.361E-04 | 9.515E-04 | 1.167E-03 | 1.984E-05 | 5.833E-05 | 8.753E-04 | 9.535E-04 | 3.789E+00 | 3.751E+00 |
| Annual | T7 CAIRP | 8.870E-04 | 1.801E-02 | 4.221E-03 | 3.613E-05 | 7.937E-05 | 1.361E-04 | 5.962E-04 | 7.651E-04 | 1.984E-05 | 5.833E-05 | 5.056E-04 | 5.838E-04 | 3.751E+00 | 3.714E+00 |
| Annual | T7 CAIRP construction | 9.009E-04 | 1.842E-02 | 4.289E-03 | 3.615E-05 | 7.937E-05 | 1.361E-04 | 5.616E-04 | 7.771E-04 | 1.984E-05 | 5.833E-05 | 5.167E-04 | 5.949E-04 | 3.753E+00 | 3.715E+00 |
| Annual | T7 NNOOS | 5.766E-04 | 1.005E-02 | 2.685E-03 | 3.589E-05 | 7.937E-05 | 1.361E-04 | 2.945E-04 | 5.100E-04 | 1.984E-05 | 5.833E-05 | 2.710E-04 | 3.492E-04 | 3.726E+00 | 3.689E+00 |
| Annual | T7 NOOS | 8.295E-04 | 1.801E-02 | 3.930E-03 | 3.616E-05 | 7.937E-05 | 1.361E-04 | 5.075E-04 | 7.230E-04 | 1.984E-05 | 5.833E-05 | 4.669E-04 | 5.451E-04 | 3.754E+00 | 3.717E+00 |
| Annual | T7 other port | | | | | | | | | | | | | | |
| Annual | T7 POAK | | | | | | | | | | | | | | |
| Annual | T7 POLA | 6.628E-04 | 1.756E-02 | 3.074E-03 | 3.670E-05 | 7.937E-05 | 1.361E-04 | 1.679E-04 | 3.834E-04 | 1.984E-05 | 5.833E-05 | 1.545E-04 | 2.327E-04 | 3.811E+00 | 3.773E+00 |
| Annual | T7 Public | 1.590E-04 | 3.174E-02 | 8.997E-04 | 3.699E-05 | 7.937E-05 | 1.361E-04 | 1.298E-04 | 3.452E-04 | 1.984E-05 | 5.833E-05 | 1.194E-04 | 1.976E-04 | 3.840E+00 | 3.802E+00 |
| Annual | T7 Single | 7.440E-04 | 2.497E-02 | 4.139E-03 | 3.609E-05 | 7.937E-05 | 1.361E-04 | 5.353E-04 | 7.507E-04 | 1.984E-05 | 5.833E-05 | 4.924E-04 | 5.706E-04 | 3.747E+00 | 3.709E+00 |
| Annual | T7 single construction | 7.537E-04 | 2.548E-02 | 4.199E-03 | 3.610E-05 | 7.937E-05 | 1.361E-04 | 5.452E-04 | 7.607E-04 | 1.984E-05 | 5.833E-05 | 5.016E-04 | 5.797E-04 | 3.748E+00 | 3.710E+00 |
| Annual | T7 SWCV | 2.232E-04 | 2.905E-02 | 1.240E-03 | 3.707E-05 | 7.937E-05 | 1.361E-04 | 1.656E-04 | 3.810E-04 | 1.984E-05 | 5.833E-05 | 1.523E-04 | 2.305E-04 | 3.849E+00 | 3.810E+00 |
| Annual | T7 tractor | 1.081E-03 | 2.479E-02 | 5.754E-03 | 3.616E-05 | 7.937E-05 | 1.361E-04 | 7.389E-04 | 9.544E-04 | 1.984E-05 | 5.833E-05 | 6.798E-04 | 7.580E-04 | 3.755E+00 | 3.717E+00 |
| Annual | T7 tractor construction | 1.139E-03 | 2.584E-02 | 6.135E-03 | 3.615E-05 | 7.937E-05 | 1.361E-04 | 7.746E-04 | 9.900E-04 | 1.984E-05 | 5.833E-05 | 7.126E-04 | 7.908E-04 | 3.753E+00 | 3.716E+00 |
| Annual | T7 utility | 4.305E-04 | 2.273E-02 | 2.284E-03 | 3.606E-05 | 7.937E-05 | 1.361E-04 | 3.737E-04 | 5.892E-04 | 1.984E-05 | 5.833E-05 | 3.438E-04 | 4.220E-04 | 3.743E+00 | 3.706E+00 |
| Annual | T7IS | 1.537E-03 | 1.113E-02 | 5.280E-02 | 1.384E-05 | 1.764E-05 | 8.102E-05 | 1.821E-06 | 1.005E-04 | 4.409E-06 | 3.472E-05 | 1.558E-06 | 4.069E-05 | 1.048E+00 | 1.037E+00 |
| Annual | UBUS | 1.006E-03 | 1.955E-02 | 8.363E-03 | 4.315E-05 | 1.764E-05 | 1.397E-03 | 2.447E-04 | 1.659E-03 | 4.409E-06 | 5.988E-04 | 2.250E-04 | 8.282E-04 | 4.329E+00 | 4.286E+00 |

| Season | Veh | MTons/Mile | | | | | | | | | | | CO2(Pavley I + LCFS)_RUNEX | | |
|--------|-------------------------------|------------|-----------|-----------|-----------|------------|------------|-------------|------------|-------------|-------------|--------------|----------------------------|-----------|------------|
| | | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | PM10_PMT W | PM10_PMB W | PM10_RUNE X | PM10_Total | PM2_5_PMT W | PM2_5_PMB W | PM2_5_RUN EX | PM2_5_Total | CO2_RUNEX | LCFS_RUNEX |
| Annual | All Other Buses | 2.642E-07 | 7.840E-06 | 1.070E-06 | 1.079E-08 | 1.200E-08 | 1.303E-07 | 2.090E-07 | 3.513E-07 | 3.000E-09 | 5.586E-08 | 1.922E-07 | 2.511E-07 | 1.112E-03 | 1.101E-03 |
| Annual | LDA | 3.218E-08 | 1.185E-07 | 1.304E-06 | 3.489E-09 | 8.000E-09 | 3.675E-08 | 1.642E-09 | 4.639E-08 | 2.000E-09 | 1.575E-08 | 1.496E-09 | 1.925E-08 | 2.961E-04 | 2.716E-04 |
| Annual | LDT1 | 7.540E-08 | 2.789E-07 | 2.849E-06 | 4.047E-09 | 8.000E-09 | 3.675E-08 | 3.528E-09 | 4.828E-08 | 2.000E-09 | 1.575E-08 | 3.228E-09 | 2.098E-08 | 3.413E-04 | 3.171E-04 |
| Annual | LDT2 | 3.328E-08 | 2.023E-07 | 1.705E-06 | 4.762E-09 | 8.000E-09 | 3.675E-08 | 1.486E-09 | 4.624E-08 | 2.000E-09 | 1.575E-08 | 1.364E-09 | 1.911E-08 | 4.042E-04 | 3.807E-04 |
| Annual | LHD1 | 9.283E-08 | 1.246E-06 | 1.209E-06 | 5.696E-09 | 8.966E-09 | 4.633E-08 | 9.007E-09 | 6.431E-08 | 2.241E-09 | 1.986E-08 | 8.290E-09 | 3.039E-08 | 4.866E-04 | 4.817E-04 |
| Annual | LHD2 | 1.037E-07 | 1.933E-06 | 1.020E-06 | 5.477E-09 | 9.956E-09 | 6.239E-08 | 1.737E-08 | 8.971E-08 | 2.489E-09 | 2.674E-08 | 1.597E-08 | 4.520E-08 | 4.995E-04 | 4.945E-04 |
| Annual | MCY | 2.099E-06 | 1.191E-06 | 1.965E-05 | 1.909E-09 | 7.999E-09 | 3.674E-08 | 6.743E-10 | 4.542E-08 | 2.000E-09 | 1.575E-08 | 5.363E-10 | 1.828E-08 | 1.288E-04 | 1.275E-04 |
| Annual | MDV | 5.275E-08 | 3.061E-07 | 2.348E-06 | 6.051E-09 | 8.000E-09 | 3.675E-08 | 1.671E-09 | 4.642E-08 | 2.000E-09 | 1.575E-08 | 1.537E-09 | 1.929E-08 | 5.133E-04 | 4.923E-04 |
| Annual | MH | 1.682E-07 | 2.117E-06 | 4.971E-06 | 6.809E-09 | 8.742E-09 | 5.410E-08 | 2.985E-08 | 9.269E-08 | 2.185E-09 | 2.319E-08 | 2.741E-08 | 5.278E-08 | 5.920E-04 | 5.861E-04 |
| Annual | Motor Coach | 2.937E-07 | 1.013E-05 | 1.468E-06 | 1.643E-08 | 1.200E-08 | 1.303E-07 | 2.171E-07 | 3.594E-07 | 3.000E-09 | 5.586E-08 | 1.997E-07 | 2.586E-07 | 1.705E-03 | 1.688E-03 |
| Annual | OBUS | 1.338E-07 | 1.323E-06 | 2.799E-06 | 5.852E-09 | 8.000E-09 | 3.675E-08 | 7.619E-10 | 4.551E-08 | 2.000E-09 | 1.575E-08 | 6.938E-10 | 1.844E-08 | 4.752E-04 | 4.705E-04 |
| Annual | PTO | 7.207E-07 | 1.314E-05 | 3.373E-06 | 2.051E-08 | 0.000E+00 | 0.000E+00 | 4.047E-07 | 4.047E-07 | 0.000E+00 | 0.000E+00 | 3.723E-07 | 3.723E-07 | 2.149E-03 | 2.128E-03 |
| Annual | SBUS | 3.665E-07 | 7.494E-06 | 5.339E-06 | 1.106E-08 | 1.090E-08 | 5.499E-07 | 1.172E-07 | 6.780E-07 | 2.725E-09 | 2.357E-07 | 1.077E-07 | 3.461E-07 | 9.347E-04 | 9.253E-04 |
| Annual | T6 Ag | 3.891E-07 | 8.016E-06 | 1.548E-06 | 1.079E-08 | 1.200E-08 | 1.303E-07 | 3.133E-07 | 4.556E-07 | 3.000E-09 | 5.586E-08 | 2.882E-07 | 3.471E-07 | 1.112E-03 | 1.101E-03 |
| Annual | T6 CAIRP heavy | 1.492E-07 | 5.161E-06 | 6.448E-07 | 1.069E-08 | 1.200E-08 | 1.303E-07 | 1.065E-07 | 2.489E-07 | 3.000E-09 | 5.586E-08 | 9.802E-08 | 1.569E-07 | 1.101E-03 | 1.090E-03 |
| Annual | T6 CAIRP small | 1.495E-07 | 3.741E-06 | 6.412E-07 | 1.066E-08 | 1.200E-08 | 1.303E-07 | 1.072E-07 | 2.496E-07 | 3.000E-09 | 5.586E-08 | 9.867E-08 | 1.575E-07 | 1.098E-03 | 1.087E-03 |
| Annual | T6 instate construction heavy | 2.402E-07 | 7.571E-06 | 1.056E-06 | 1.071E-08 | 1.200E-08 | 1.303E-07 | 1.804E-07 | 3.227E-07 | 3.000E-09 | 5.586E-08 | 1.659E-07 | 2.248E-07 | 1.104E-03 | 1.093E-03 |
| Annual | T6 instate construction small | 1.986E-07 | 5.231E-06 | 6.889E-07 | 1.067E-08 | 1.200E-08 | 1.303E-07 | 1.528E-07 | 2.952E-07 | 3.000E-09 | 5.586E-08 | 1.406E-07 | 1.995E-07 | 1.100E-03 | 1.089E-03 |
| Annual | T6 instate heavy | 2.323E-07 | 7.239E-06 | 1.020E-06 | 1.070E-08 | 1.200E-08 | 1.303E-07 | 1.732E-07 | 3.155E-07 | 3.000E-09 | 5.586E-08 | 1.593E-07 | 2.182E-07 | 1.103E-03 | 1.092E-03 |
| Annual | T6 instate small | 1.893E-07 | 4.913E-06 | 8.270E-07 | 1.066E-08 | 1.200E-08 | 1.303E-07 | 1.438E-07 | 2.861E-07 | 3.000E-09 | 5.586E-08 | 1.323E-07 | 1.911E-07 | 1.099E-03 | 1.088E-03 |
| Annual | T6 OOS heavy | 1.492E-07 | 5.161E-06 | 6.448E-07 | 1.069E-08 | 1.200E-08 | 1.303E-07 | 1.065E-07 | 2.489E-07 | 3.000E-09 | 5.586E-08 | 9.802E-08 | 1.569E-07 | 1.101E-03 | 1.090E-03 |
| Annual | T6 OOS small | 1.495E-07 | 3.741E-06 | 6.412E-07 | 1.066E-08 | 1.200E-08 | 1.303E-07 | 1.072E-07 | 2.496E-07 | 3.000E-09 | 5.586E-08 | 9.867E-08 | 1.575E-07 | 1.098E-03 | 1.087E-03 |
| Annual | T6 Public | 4.521E-08 | 7.706E-06 | 1.903E-07 | 1.087E-08 | 1.200E-08 | 1.303E-07 | 3.205E-08 | 1.744E-07 | 3.000E-09 | 5.586E-08 | 2.948E-08 | 8.834E-08 | 1.120E-03 | 1.109E-03 |
| Annual | T6 utility | 1.063E-07 | 5.373E-06 | 4.716E-07 | 1.067E-08 | 1.200E-08 | 1.303E-07 | 1.030E-07 | 2.454E-07 | 3.000E-09 | 5.586E-08 | 9.477E-08 | 1.536E-07 | 1.100E-03 | 1.089E-03 |
| Annual | T6TS | 2.217E-07 | 1.721E-06 | 4.610E-06 | 5.890E-09 | 8.000E-09 | 3.675E-08 | 1.495E-09 | 4.624E-08 | 2.000E-09 | 1.575E-08 | 1.357E-09 | 1.911E-08 | 4.752E-04 | 4.705E-04 |
| Annual | T7 Ag | 5.245E-07 | 1.379E-05 | 3.039E-06 | 1.656E-08 | 3.600E-08 | 6.174E-08 | 4.316E-07 | 5.293E-07 | 9.000E-09 | 2.646E-08 | 3.971E-07 | 4.325E-07 | 1.719E-03 | 1.702E-03 |
| Annual | T7 CAIRP | 4.023E-07 | 8.171E-06 | 1.915E-06 | 1.639E-08 | 3.600E-08 | 6.174E-08 | 2.493E-07 | 3.470E-07 | 9.000E-09 | 2.646E-08 | 2.294E-07 | 2.648E-07 | 1.702E-03 | 1.685E-03 |
| Annual | T7 CAIRP construction | 4.086E-07 | 8.357E-06 | 1.945E-06 | 1.640E-08 | 3.600E-08 | 6.174E-08 | 2.548E-07 | 3.525E-07 | 9.000E-09 | 2.646E-08 | 2.344E-07 | 2.698E-07 | 1.702E-03 | 1.685E-03 |
| Annual | T7 NNOOS | 2.616E-07 | 4.560E-06 | 1.218E-06 | 1.628E-08 | 3.600E-08 | 6.174E-08 | 1.336E-07 | 2.313E-07 | 9.000E-09 | 2.646E-08 | 1.229E-07 | 1.584E-07 | 1.690E-03 | 1.673E-03 |
| Annual | T7 NOOS | 3.763E-07 | 8.171E-06 | 1.783E-06 | 1.640E-08 | 3.600E-08 | 6.174E-08 | 2.302E-07 | 3.279E-07 | 9.000E-09 | 2.646E-08 | 2.118E-07 | 2.473E-07 | 1.703E-03 | 1.686E-03 |
| Annual | T7 other port | | | | | | | | | | | | | | |
| Annual | T7 POAK | | | | | | | | | | | | | | |
| Annual | T7 POLA | 3.007E-07 | 7.967E-06 | 1.394E-06 | 1.665E-08 | 3.600E-08 | 6.174E-08 | 7.617E-08 | 1.739E-07 | 9.000E-09 | 2.646E-08 | 7.007E-08 | 1.055E-07 | 1.728E-03 | 1.711E-03 |
| Annual | T7 Public | 7.211E-08 | 1.440E-05 | 4.081E-07 | 1.678E-08 | 3.600E-08 | 6.174E-08 | 5.886E-08 | 1.566E-07 | 9.000E-09 | 2.646E-08 | 5.415E-08 | 8.961E-08 | 1.742E-03 | 1.725E-03 |
| Annual | T7 Single | 3.375E-07 | 1.132E-05 | 1.877E-06 | 1.637E-08 | 3.600E-08 | 6.174E-08 | 2.428E-07 | 3.405E-07 | 9.000E-09 | 2.646E-08 | 2.234E-07 | 2.588E-07 | 1.700E-03 | 1.683E-03 |
| Annual | T7 single construction | 3.419E-07 | 1.156E-05 | 1.905E-06 | 1.638E-08 | 3.600E-08 | 6.174E-08 | 2.473E-07 | 3.450E-07 | 9.000E-09 | 2.646E-08 | 2.275E-07 | 2.630E-07 | 1.700E-03 | 1.683E-03 |
| Annual | T7 SWCV | 1.012E-07 | 1.318E-05 | 5.623E-07 | 1.682E-08 | 3.600E-08 | 6.174E-08 | 7.510E-08 | 1.728E-07 | 9.000E-09 | 2.646E-08 | 6.909E-08 | 1.046E-07 | 1.746E-03 | 1.728E-03 |
| Annual | T7 tractor | 4.902E-07 | 1.125E-05 | 2.610E-06 | 1.640E-08 | 3.600E-08 | 6.174E-08 | 3.352E-07 | 4.329E-07 | 9.000E-09 | 2.646E-08 | 3.084E-07 | 3.438E-07 | 1.703E-03 | 1.686E-03 |
| Annual | T7 tractor construction | 5.168E-07 | 1.172E-05 | 2.783E-06 | 1.640E-08 | 3.600E-08 | 6.174E-08 | 3.513E-07 | 4.491E-07 | 9.000E-09 | 2.646E-08 | 3.232E-07 | 3.587E-07 | 1.703E-03 | 1.685E-03 |
| Annual | T7 utility | 1.953E-07 | 1.031E-05 | 1.036E-06 | 1.636E-08 | 3.600E-08 | 6.174E-08 | 1.695E-07 | 2.673E-07 | 9.000E-09 | 2.646E-08 | 1.560E-07 | 1.914E-07 | 1.698E-03 | 1.681E-03 |
| Annual | T7IS | 6.972E-07 | 5.049E-06 | 2.395E-05 | 6.280E-09 | 8.000E-09 | 3.675E-08 | 8.258E-10 | 4.558E-08 | 2.000E-09 | 1.575E-08 | 7.069E-10 | 1.846E-08 | 4.752E-04 | 4.705E-04 |
| Annual | UBUS | 4.563E-07 | 8.866E-06 | 3.793E-06 | 1.957E-08 | 8.000E-09 | 6.337E-07 | 1.110E-07 | 7.527E-07 | 2.000E-09 | 2.716E-07 | 1.021E-07 | 3.757E-07 | 1.964E-03 | 1.944E-03 |

| Season | Veh | Speed | PM10 | | | | | | | | | | PM2.5 | | | | CO2(Pavley I + LCFS)_RUNE | | VMT from EMFAC-SG | %VMT |
|--------|-------------------------------|--------|-----------|-----------|----------|-----------|----------|----------|----------|------------|----------|----------|----------|----------|-----------|----------|---------------------------|------|-------------------|------|
| | | | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | W | W | X | PM10_Total | W | W | EX | I | CO2_RUNEX | X | | | | |
| Annual | All Other Buses | 40 MPH | 9.09E-02 | 1.15E+00 | 3.75E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.79E-02 | 1.80E-01 | 3.00E-03 | 5.59E-02 | 3.49E-02 | 9.37E-02 | 1.08E+03 | 9.75E+02 | 47,868 | 0% | | |
| Annual | LDA | 40 MPH | 7.16E-03 | 4.96E-02 | 5.43E-01 | 3.49E-03 | 8.00E-03 | 3.67E-02 | 1.67E-03 | 4.64E-02 | 2.00E-03 | 1.57E-02 | 1.55E-03 | 1.93E-02 | 2.97E+02 | 1.77E+02 | 41,308,032 | 48% | | |
| Annual | LDT1 | 40 MPH | 9.21E-03 | 5.90E-02 | 6.72E-01 | 4.06E-03 | 8.00E-03 | 3.67E-02 | 1.66E-03 | 4.64E-02 | 2.00E-03 | 1.57E-02 | 1.54E-03 | 1.93E-02 | 3.45E+02 | 2.13E+02 | 5,155,730 | 6% | | |
| Annual | LDT2 | 40 MPH | 8.97E-03 | 6.12E-02 | 6.49E-01 | 4.75E-03 | 8.00E-03 | 3.67E-02 | 1.65E-03 | 4.64E-02 | 2.00E-03 | 1.57E-02 | 1.53E-03 | 1.93E-02 | 4.04E+02 | 2.75E+02 | 17,649,762 | 20% | | |
| Annual | LHD1 | 40 MPH | 1.91E-02 | 3.08E-01 | 2.20E-01 | 5.68E-03 | 8.95E-03 | 4.62E-02 | 4.08E-03 | 5.93E-02 | 2.24E-03 | 1.98E-02 | 3.76E-03 | 2.58E-02 | 4.86E+02 | 4.37E+02 | 3,776,753 | 4% | | |
| Annual | LHD2 | 40 MPH | 2.92E-02 | 4.31E-01 | 2.73E-01 | 5.45E-03 | 9.92E-03 | 6.19E-02 | 7.40E-03 | 7.93E-02 | 2.48E-03 | 2.65E-02 | 6.81E-03 | 3.58E-02 | 4.96E+02 | 4.47E+02 | 544,895 | 1% | | |
| Annual | MCY | 40 MPH | 1.86E+00 | 1.11E+00 | 1.52E+01 | 1.94E-03 | 8.00E-03 | 3.67E-02 | 1.81E-04 | 4.49E-02 | 2.00E-03 | 1.57E-02 | 1.57E-04 | 1.79E-02 | 1.39E+02 | 1.25E+02 | 259,852 | 0% | | |
| Annual | MDV | 40 MPH | 1.31E-02 | 8.51E-02 | 8.97E-01 | 6.08E-03 | 8.00E-03 | 3.67E-02 | 1.59E-03 | 4.63E-02 | 2.00E-03 | 1.57E-02 | 1.47E-03 | 1.92E-02 | 5.17E+02 | 3.63E+02 | 13,753,433 | 16% | | |
| Annual | MH | 40 MPH | 2.17E-02 | 7.20E-01 | 1.77E-01 | 6.74E-03 | 8.73E-03 | 5.37E-02 | 6.78E-03 | 6.93E-02 | 2.18E-03 | 2.30E-02 | 6.24E-03 | 3.15E-02 | 5.92E+02 | 5.33E+02 | 329,680 | 0% | | |
| Annual | Motor Coach | 40 MPH | 1.74E-01 | 1.71E+00 | 8.10E-01 | 1.61E-02 | 1.20E-02 | 1.30E-01 | 5.51E-02 | 1.97E-01 | 3.00E-03 | 5.59E-02 | 5.07E-02 | 1.10E-01 | 1.67E+03 | 1.51E+03 | 48,996 | 0% | | |
| Annual | OBUS | 40 MPH | 1.14E-02 | 1.80E-01 | 2.35E-01 | 5.81E-03 | 8.00E-03 | 3.67E-02 | 1.42E-04 | 4.49E-02 | 2.00E-03 | 1.57E-02 | 1.32E-04 | 1.79E-02 | 4.75E+02 | 4.28E+02 | 36,934 | 0% | | |
| Annual | PTO | 40 MPH | 2.65E-01 | 2.07E+00 | 8.15E-01 | 2.02E-02 | 1.20E-02 | 1.30E-01 | 3.42E-02 | 4.42E-02 | 3.00E-03 | 5.59E-02 | 4.07E-02 | 4.07E-02 | 2.12E+03 | 1.91E+03 | 31,471 | 0% | | |
| Annual | SBUS | 40 MPH | 1.34E-01 | 2.59E+00 | 9.00E-01 | 1.06E-02 | 1.06E-02 | 5.04E-01 | 3.37E-02 | 5.48E-01 | 2.66E-03 | 2.16E-01 | 3.10E-02 | 2.50E-01 | 8.92E+02 | 8.03E+02 | 41,362 | 0% | | |
| Annual | T6 Ag | 40 MPH | 8.86E-02 | 1.09E+00 | 3.65E-01 | 1.05E-02 | 1.05E-02 | 1.30E-01 | 3.66E-02 | 1.79E-01 | 3.00E-03 | 5.59E-02 | 3.37E-02 | 9.26E-02 | 1.08E+03 | 9.75E+02 | 1,339 | 0% | | |
| Annual | T6 CAIRP heavy | 40 MPH | 7.74E-02 | 8.97E-01 | 3.19E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.08E-02 | 1.73E-01 | 3.00E-03 | 5.59E-02 | 2.83E-02 | 8.72E-02 | 1.08E+03 | 9.75E+02 | 898 | 0% | | |
| Annual | T6 CAIRP small | 40 MPH | 7.36E-02 | 8.25E-01 | 3.03E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 2.88E-02 | 1.71E-01 | 3.00E-03 | 5.59E-02 | 2.65E-02 | 8.53E-02 | 1.08E+03 | 9.75E+02 | 3,109 | 0% | | |
| Annual | T6 instate construction heavy | 40 MPH | 8.39E-02 | 1.02E+00 | 3.46E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.42E-02 | 1.77E-01 | 3.00E-03 | 5.59E-02 | 3.15E-02 | 9.04E-02 | 1.08E+03 | 9.75E+02 | 46,759 | 0% | | |
| Annual | T6 instate construction small | 40 MPH | 7.68E-02 | 8.85E-01 | 3.16E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.05E-02 | 1.73E-01 | 3.00E-03 | 5.59E-02 | 2.80E-02 | 8.69E-02 | 1.08E+03 | 9.75E+02 | 138,258 | 0% | | |
| Annual | T6 instate heavy | 40 MPH | 8.40E-02 | 1.02E+00 | 3.46E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.43E-02 | 1.77E-01 | 3.00E-03 | 5.59E-02 | 3.15E-02 | 9.04E-02 | 1.08E+03 | 9.75E+02 | 253,617 | 0% | | |
| Annual | T6 instate small | 40 MPH | 7.68E-02 | 8.86E-01 | 3.17E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.05E-02 | 1.73E-01 | 3.00E-03 | 5.59E-02 | 2.80E-02 | 8.69E-02 | 1.08E+03 | 9.75E+02 | 748,246 | 1% | | |
| Annual | T6 OOS heavy | 40 MPH | 7.74E-02 | 8.97E-01 | 3.19E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 3.08E-02 | 1.73E-01 | 3.00E-03 | 5.59E-02 | 2.83E-02 | 8.72E-02 | 1.08E+03 | 9.75E+02 | 515 | 0% | | |
| Annual | T6 OOS small | 40 MPH | 7.36E-02 | 8.25E-01 | 3.03E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 2.88E-02 | 1.71E-01 | 3.00E-03 | 5.59E-02 | 2.65E-02 | 8.53E-02 | 1.08E+03 | 9.75E+02 | 1,783 | 0% | | |
| Annual | T6 Public | 40 MPH | 6.56E-02 | 8.77E-01 | 2.71E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 2.48E-02 | 1.67E-01 | 3.00E-03 | 5.59E-02 | 2.29E-02 | 8.17E-02 | 1.08E+03 | 9.76E+02 | 34,684 | 0% | | |
| Annual | T6 utility | 40 MPH | 6.20E-02 | 6.07E-01 | 2.55E-01 | 1.05E-02 | 1.20E-02 | 1.30E-01 | 2.26E-02 | 1.65E-01 | 3.00E-03 | 5.59E-02 | 2.08E-02 | 7.97E-02 | 1.08E+03 | 9.75E+02 | 5,976 | 0% | | |
| Annual | T6TS | 40 MPH | 1.04E-02 | 1.67E-01 | 2.15E-01 | 5.81E-03 | 8.00E-03 | 3.67E-02 | 1.41E-04 | 4.49E-02 | 2.00E-03 | 1.57E-02 | 1.31E-04 | 1.79E-02 | 4.75E+02 | 4.28E+02 | 264,009 | 0% | | |
| Annual | T7 Ag | 40 MPH | 1.85E-01 | 1.85E+00 | 8.57E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 5.90E-02 | 1.57E-01 | 9.00E-03 | 2.65E-02 | 5.43E-02 | 8.98E-02 | 1.67E+03 | 1.51E+03 | 1,674 | 0% | | |
| Annual | T7 CAIRP | 40 MPH | 1.90E-01 | 1.96E+00 | 8.84E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 6.18E-02 | 1.59E-01 | 9.00E-03 | 2.65E-02 | 5.68E-02 | 9.23E-02 | 1.67E+03 | 1.51E+03 | 243,346 | 0% | | |
| Annual | T7 CAIRP construction | 40 MPH | 1.90E-01 | 1.96E+00 | 8.84E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 6.18E-02 | 1.59E-01 | 9.00E-03 | 2.65E-02 | 5.68E-02 | 9.23E-02 | 1.67E+03 | 1.51E+03 | 17,564 | 0% | | |
| Annual | T7 NNOOS | 40 MPH | 1.65E-01 | 1.57E+00 | 7.66E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 5.12E-02 | 1.49E-01 | 9.00E-03 | 2.65E-02 | 4.71E-02 | 8.26E-02 | 1.67E+03 | 1.51E+03 | 273,755 | 0% | | |
| Annual | T7 NOOS | 40 MPH | 1.90E-01 | 1.96E+00 | 8.84E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 6.18E-02 | 1.59E-01 | 9.00E-03 | 2.65E-02 | 5.68E-02 | 9.23E-02 | 1.67E+03 | 1.51E+03 | 88,620 | 0% | | |
| Annual | T7 other port | 40 MPH | | | | | | | 0.00E+00 | | | | | 0.00E+00 | | | 0 | 0% | | |
| Annual | T7 POAK | 40 MPH | | | | | | | 0.00E+00 | | | | | 0.00E+00 | | | 0 | 0% | | |
| Annual | T7 POLA | 40 MPH | 2.29E-01 | 2.56E+00 | 1.06E+00 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 7.80E-02 | 1.76E-01 | 9.00E-03 | 2.65E-02 | 7.18E-02 | 1.07E-01 | 1.67E+03 | 1.51E+03 | 541,972 | 1% | | |
| Annual | T7 Public | 40 MPH | 1.24E-01 | 2.57E+00 | 5.79E-01 | 1.62E-02 | 3.60E-02 | 6.17E-02 | 3.80E-02 | 1.36E-01 | 9.00E-03 | 2.65E-02 | 3.49E-02 | 7.04E-02 | 1.68E+03 | 1.51E+03 | 15,829 | 0% | | |
| Annual | T7 Single | 40 MPH | 1.54E-01 | 1.40E+00 | 7.15E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 4.66E-02 | 1.44E-01 | 9.00E-03 | 2.65E-02 | 4.28E-02 | 7.83E-02 | 1.67E+03 | 1.51E+03 | 130,907 | 0% | | |
| Annual | T7 single construction | 40 MPH | 1.54E-01 | 1.40E+00 | 7.15E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 4.66E-02 | 1.44E-01 | 9.00E-03 | 2.65E-02 | 4.29E-02 | 7.83E-02 | 1.67E+03 | 1.51E+03 | 45,437 | 0% | | |
| Annual | T7 SWCV | 40 MPH | 1.40E-01 | 2.75E+00 | 6.53E-01 | 1.62E-02 | 3.60E-02 | 6.17E-02 | 4.42E-02 | 1.42E-01 | 9.00E-03 | 2.65E-02 | 4.07E-02 | 7.61E-02 | 1.68E+03 | 1.51E+03 | 42,888 | 0% | | |
| Annual | T7 tractor | 40 MPH | 1.91E-01 | 1.97E+00 | 8.88E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 6.20E-02 | 1.60E-01 | 9.00E-03 | 2.65E-02 | 5.71E-02 | 9.25E-02 | 1.67E+03 | 1.51E+03 | 343,347 | 0% | | |
| Annual | T7 tractor construction | 40 MPH | 1.91E-01 | 1.98E+00 | 8.90E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 6.22E-02 | 1.60E-01 | 9.00E-03 | 2.65E-02 | 5.72E-02 | 9.27E-02 | 1.67E+03 | 1.51E+03 | 33,877 | 0% | | |
| Annual | T7 utility | 40 MPH | 1.25E-01 | 9.54E-01 | 5.79E-01 | 1.61E-02 | 3.60E-02 | 6.17E-02 | 3.44E-02 | 1.32E-01 | 9.00E-03 | 2.65E-02 | 3.16E-02 | 6.71E-02 | 1.67E+03 | 1.51E+03 | 1,761 | 0% | | |
| Annual | T7IS | 40 MPH | 2.72E-01 | 3.94E+00 | 1.98E+01 | 6.20E-03 | 8.00E-03 | 3.67E-02 | 1.27E-04 | 4.49E-02 | 2.00E-03 | 1.57E-02 | 1.18E-04 | 1.79E-02 | 4.75E+02 | 4.28E+02 | 31,826 | 0% | | |
| Annual | UBUS | 40 MPH | 1.74E-01 | 4.14E+00 | 1.07E+00 | 1.81E-02 | 8.00E-03 | 6.34E-01 | 6.27E-02 | 7.04E-01 | 2.00E-03 | 2.72E-01 | 5.77E-02 | 3.31E-01 | 1.82E+03 | 1.64E+03 | 204,309 | 0% | | |
| | | | | | | | | | | | | | | | | | 86,501,072 | 100% | | |

| Season | Veh | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | PM10_PMT W | PM10_PMB W | PM10_RUNE X | PM10_Total | PM2_5_PMT W | PM2_5_PMB W | PM2_5_RUN EX | PM2_5_Total | CO2_RUNEX | CO2(Pavley I + LCFS)_RUNEX |
|--------|-------------------------------|-----------|-----------|-----------|-----------|---------------|---------------|----------------|------------|----------------|----------------|-----------------|-------------|-----------|----------------------------------|
| Annual | All Other Buses | 2.004E-04 | 2.533E-03 | 8.259E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 8.359E-05 | 3.974E-04 | 6.614E-06 | 1.231E-04 | 7.690E-05 | 2.067E-04 | 2.387E+00 | 2.149E+00 |
| Annual | LDA | 1.577E-05 | 1.094E-04 | 1.198E-03 | 7.699E-06 | 1.764E-05 | 8.102E-05 | 3.672E-06 | 1.023E-04 | 4.409E-06 | 3.472E-05 | 3.407E-06 | 4.254E-05 | 6.545E-01 | 3.901E-01 |
| Annual | LDT1 | 2.031E-05 | 1.301E-04 | 1.482E-03 | 8.950E-06 | 1.764E-05 | 8.102E-05 | 3.650E-06 | 1.023E-04 | 4.409E-06 | 3.472E-05 | 3.386E-06 | 4.252E-05 | 7.606E-01 | 4.692E-01 |
| Annual | LDT2 | 1.976E-05 | 1.348E-04 | 1.430E-03 | 1.047E-05 | 1.764E-05 | 8.102E-05 | 3.630E-06 | 1.023E-04 | 4.409E-06 | 3.472E-05 | 3.368E-06 | 4.250E-05 | 8.901E-01 | 6.060E-01 |
| Annual | LHD1 | 4.221E-05 | 6.783E-04 | 4.850E-04 | 1.252E-05 | 1.974E-05 | 1.019E-04 | 9.001E-06 | 1.306E-04 | 4.935E-06 | 4.367E-05 | 8.283E-06 | 5.689E-05 | 1.071E+00 | 9.637E-01 |
| Annual | LHD2 | 6.446E-05 | 9.492E-04 | 6.025E-04 | 1.202E-05 | 2.187E-05 | 1.366E-04 | 1.631E-05 | 1.747E-04 | 5.468E-06 | 5.852E-05 | 1.501E-05 | 7.900E-05 | 1.094E+00 | 9.848E-01 |
| Annual | MCY | 4.107E-03 | 2.446E-03 | 3.358E-02 | 4.288E-06 | 1.764E-05 | 8.102E-05 | 3.992E-07 | 9.905E-05 | 4.409E-06 | 3.472E-05 | 3.459E-07 | 3.948E-05 | 3.073E-01 | 2.766E-01 |
| Annual | MDV | 2.881E-05 | 1.877E-04 | 1.978E-03 | 1.341E-05 | 1.764E-05 | 8.102E-05 | 3.500E-06 | 1.022E-04 | 4.409E-06 | 3.472E-05 | 3.248E-06 | 4.238E-05 | 1.140E+00 | 8.013E-01 |
| Annual | MH | 4.786E-05 | 1.588E-03 | 3.906E-04 | 1.485E-05 | 1.924E-05 | 1.185E-04 | 1.495E-05 | 1.527E-04 | 4.810E-06 | 5.078E-05 | 1.376E-05 | 6.935E-05 | 1.306E+00 | 1.176E+00 |
| Annual | Motor Coach | 3.845E-04 | 3.781E-03 | 1.785E-03 | 3.554E-05 | 2.646E-05 | 2.873E-04 | 1.214E-04 | 4.352E-04 | 6.614E-06 | 1.231E-04 | 1.117E-04 | 2.415E-04 | 3.690E+00 | 3.321E+00 |
| Annual | OBUS | 2.504E-05 | 3.959E-04 | 5.188E-04 | 1.281E-05 | 1.764E-05 | 8.102E-05 | 3.137E-07 | 9.897E-05 | 4.409E-06 | 3.472E-05 | 2.910E-07 | 3.942E-05 | 1.048E+00 | 9.429E-01 |
| Annual | PTO | 5.837E-04 | 4.571E-03 | 1.796E-03 | 4.453E-05 | 0.000E+00 | 0.000E+00 | 9.748E-05 | 9.748E-05 | 0.000E+00 | 0.000E+00 | 8.969E-05 | 8.969E-05 | 4.667E+00 | 4.201E+00 |
| Annual | SBUS | 2.953E-04 | 5.714E-03 | 1.984E-03 | 2.340E-05 | 2.345E-05 | 1.111E-03 | 7.422E-05 | 1.208E-03 | 5.863E-06 | 4.760E-04 | 6.828E-05 | 5.501E-04 | 1.967E+00 | 1.770E+00 |
| Annual | T6 Ag | 1.954E-04 | 2.412E-03 | 8.055E-04 | 2.321E-05 | 2.646E-05 | 2.873E-04 | 8.076E-05 | 3.946E-04 | 6.614E-06 | 1.231E-04 | 7.430E-05 | 2.041E-04 | 2.388E+00 | 2.149E+00 |
| Annual | T6 CAIRP heavy | 1.707E-04 | 1.979E-03 | 7.034E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.789E-05 | 3.817E-04 | 6.614E-06 | 1.231E-04 | 6.246E-05 | 1.922E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 CAIRP small | 1.622E-04 | 1.819E-03 | 6.685E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.340E-05 | 3.772E-04 | 6.614E-06 | 1.231E-04 | 5.833E-05 | 1.881E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 instate construction heavy | 1.850E-04 | 2.247E-03 | 7.627E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 7.550E-05 | 3.893E-04 | 6.614E-06 | 1.231E-04 | 6.946E-05 | 1.992E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 instate construction small | 1.692E-04 | 1.951E-03 | 6.975E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.713E-05 | 3.809E-04 | 6.614E-06 | 1.231E-04 | 6.176E-05 | 1.915E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 instate heavy | 1.852E-04 | 2.250E-03 | 7.634E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 7.559E-05 | 3.894E-04 | 6.614E-06 | 1.231E-04 | 6.954E-05 | 1.993E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 instate small | 1.693E-04 | 1.953E-03 | 6.978E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.717E-05 | 3.810E-04 | 6.614E-06 | 1.231E-04 | 6.179E-05 | 1.916E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 OOS heavy | 1.707E-04 | 1.979E-03 | 7.034E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.789E-05 | 3.817E-04 | 6.614E-06 | 1.231E-04 | 6.246E-05 | 1.922E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 OOS small | 1.622E-04 | 1.819E-03 | 6.685E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 6.340E-05 | 3.772E-04 | 6.614E-06 | 1.231E-04 | 5.833E-05 | 1.881E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6 Public | 1.446E-04 | 1.934E-03 | 5.966E-04 | 2.323E-05 | 2.646E-05 | 2.873E-04 | 5.477E-05 | 3.686E-04 | 6.614E-06 | 1.231E-04 | 5.039E-05 | 1.802E-04 | 2.390E+00 | 2.151E+00 |
| Annual | T6 utility | 1.366E-04 | 1.337E-03 | 5.631E-04 | 2.320E-05 | 2.646E-05 | 2.873E-04 | 4.983E-05 | 3.636E-04 | 6.614E-06 | 1.231E-04 | 4.584E-05 | 1.756E-04 | 2.387E+00 | 2.148E+00 |
| Annual | T6TS | 2.290E-05 | 3.682E-04 | 4.749E-04 | 1.281E-05 | 1.764E-05 | 8.102E-05 | 3.117E-07 | 9.897E-05 | 4.409E-06 | 3.472E-05 | 2.892E-07 | 3.942E-05 | 1.048E+00 | 9.429E-01 |
| Annual | T7 Ag | 4.070E-04 | 4.089E-03 | 1.889E-03 | 3.555E-05 | 7.937E-05 | 1.361E-04 | 1.301E-04 | 3.456E-04 | 1.984E-05 | 5.833E-05 | 1.197E-04 | 1.979E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 CAIRP | 4.193E-04 | 4.321E-03 | 1.948E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.361E-04 | 3.516E-04 | 1.984E-05 | 5.833E-05 | 1.252E-04 | 2.034E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 CAIRP construction | 4.194E-04 | 4.322E-03 | 1.948E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.361E-04 | 3.516E-04 | 1.984E-05 | 5.833E-05 | 1.253E-04 | 2.034E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 NNOOS | 3.641E-04 | 3.466E-03 | 1.690E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.129E-04 | 3.284E-04 | 1.984E-05 | 5.833E-05 | 1.039E-04 | 1.821E-04 | 3.689E+00 | 3.321E+00 |
| Annual | T7 NOOS | 4.193E-04 | 4.321E-03 | 1.948E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.361E-04 | 3.516E-04 | 1.984E-05 | 5.833E-05 | 1.252E-04 | 2.034E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 other port | | | | | | | | | | | | | | |
| Annual | T7 POAK | | | | | | | | | | | | | | |
| Annual | T7 POLA | 5.046E-04 | 5.641E-03 | 2.347E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.720E-04 | 3.875E-04 | 1.984E-05 | 5.833E-05 | 1.582E-04 | 2.364E-04 | 3.689E+00 | 3.321E+00 |
| Annual | T7 Public | 2.737E-04 | 5.673E-03 | 1.276E-03 | 3.569E-05 | 7.937E-05 | 1.361E-04 | 8.373E-05 | 2.992E-04 | 1.984E-05 | 5.833E-05 | 7.703E-05 | 1.552E-04 | 3.705E+00 | 3.335E+00 |
| Annual | T7 Single | 3.399E-04 | 3.088E-03 | 1.576E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.026E-04 | 3.181E-04 | 1.984E-05 | 5.833E-05 | 9.443E-05 | 1.726E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 single construction | 3.400E-04 | 3.090E-03 | 1.577E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.027E-04 | 3.182E-04 | 1.984E-05 | 5.833E-05 | 9.448E-05 | 1.727E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 SWCV | 3.091E-04 | 6.063E-03 | 1.441E-03 | 3.570E-05 | 7.937E-05 | 1.361E-04 | 9.744E-05 | 3.129E-04 | 1.984E-05 | 5.833E-05 | 8.964E-05 | 1.678E-04 | 3.706E+00 | 3.335E+00 |
| Annual | T7 tractor | 4.213E-04 | 4.345E-03 | 1.957E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.368E-04 | 3.523E-04 | 1.984E-05 | 5.833E-05 | 1.259E-04 | 2.040E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 tractor construction | 4.222E-04 | 4.359E-03 | 1.961E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 1.372E-04 | 3.526E-04 | 1.984E-05 | 5.833E-05 | 1.262E-04 | 2.044E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7 utility | 2.758E-04 | 2.103E-03 | 1.277E-03 | 3.554E-05 | 7.937E-05 | 1.361E-04 | 7.580E-05 | 2.913E-04 | 1.984E-05 | 5.833E-05 | 6.974E-05 | 1.479E-04 | 3.690E+00 | 3.321E+00 |
| Annual | T7IS | 6.006E-04 | 8.693E-03 | 4.373E-02 | 1.367E-05 | 1.764E-05 | 8.102E-05 | 2.806E-07 | 9.894E-05 | 4.409E-06 | 3.472E-05 | 2.604E-07 | 3.939E-05 | 1.048E+00 | 9.429E-01 |
| Annual | UBUS | 3.828E-04 | 9.131E-03 | 2.363E-03 | 3.998E-05 | 1.764E-05 | 1.397E-03 | 1.382E-04 | 1.553E-03 | 4.409E-06 | 5.988E-04 | 1.271E-04 | 7.303E-04 | 4.012E+00 | 3.610E+00 |

| Season | Veh | ROG_RUNEX | NOx_RUNEX | CO_RUNEX | SOx_RUNEX | PM10_PMT | PM10_PMB | PM10_RUNE | PM10_Total | PM2_5_PMT | PM2_5_PMB | PM2_5_RUN | PM2_5_Total | CO2_RUNEX | CO2(Pavley I |
|--------|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-------------|-----------|--------------|
| | | | | | | W | W | X | | W | W | EX | | | + |
| Annual | All Other Buses | 9.090E-08 | 1.149E-06 | 3.746E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.792E-08 | 1.803E-07 | 3.000E-09 | 5.586E-08 | 3.488E-08 | 9.374E-08 | 1.083E-03 | 9.746E-04 |
| Annual | LDA | 7.155E-09 | 4.961E-08 | 5.432E-07 | 3.492E-09 | 8.000E-09 | 3.675E-08 | 1.666E-09 | 4.642E-08 | 2.000E-09 | 1.575E-08 | 1.545E-09 | 1.930E-08 | 2.969E-04 | 1.769E-04 |
| Annual | LDT1 | 9.214E-09 | 5.902E-08 | 6.724E-07 | 4.060E-09 | 8.000E-09 | 3.675E-08 | 1.655E-09 | 4.641E-08 | 2.000E-09 | 1.575E-08 | 1.536E-09 | 1.929E-08 | 3.450E-04 | 2.128E-04 |
| Annual | LDT2 | 8.965E-09 | 6.116E-08 | 6.486E-07 | 4.749E-09 | 8.000E-09 | 3.675E-08 | 1.647E-09 | 4.640E-08 | 2.000E-09 | 1.575E-08 | 1.528E-09 | 1.928E-08 | 4.038E-04 | 2.749E-04 |
| Annual | LHD1 | 1.914E-08 | 3.077E-07 | 2.200E-07 | 5.681E-09 | 8.955E-09 | 4.622E-08 | 4.083E-09 | 5.926E-08 | 2.239E-09 | 1.981E-08 | 3.757E-09 | 2.581E-08 | 4.857E-04 | 4.371E-04 |
| Annual | LHD2 | 2.924E-08 | 4.305E-07 | 2.733E-07 | 5.450E-09 | 9.922E-09 | 6.194E-08 | 7.398E-09 | 7.926E-08 | 2.480E-09 | 2.655E-08 | 6.807E-09 | 3.583E-08 | 4.963E-04 | 4.467E-04 |
| Annual | MCY | 1.863E-06 | 1.109E-06 | 1.523E-05 | 1.945E-09 | 8.000E-09 | 3.675E-08 | 1.811E-10 | 4.493E-08 | 2.000E-09 | 1.575E-08 | 1.569E-10 | 1.791E-08 | 1.394E-04 | 1.255E-04 |
| Annual | MDV | 1.307E-08 | 8.514E-08 | 8.973E-07 | 6.085E-09 | 8.000E-09 | 3.675E-08 | 1.588E-09 | 4.634E-08 | 2.000E-09 | 1.575E-08 | 1.473E-09 | 1.922E-08 | 5.173E-04 | 3.635E-04 |
| Annual | MH | 2.171E-08 | 7.202E-07 | 1.772E-07 | 6.735E-09 | 8.726E-09 | 5.375E-08 | 6.783E-09 | 6.926E-08 | 2.182E-09 | 2.304E-08 | 6.242E-09 | 3.146E-08 | 5.925E-04 | 5.332E-04 |
| Annual | Motor Coach | 1.744E-07 | 1.715E-06 | 8.097E-07 | 1.612E-08 | 1.200E-08 | 1.303E-07 | 5.509E-08 | 1.974E-07 | 3.000E-09 | 5.586E-08 | 5.068E-08 | 1.095E-07 | 1.674E-03 | 1.506E-03 |
| Annual | OBUS | 1.136E-08 | 1.796E-07 | 2.353E-07 | 5.811E-09 | 8.000E-09 | 3.675E-08 | 1.423E-10 | 4.489E-08 | 2.000E-09 | 1.575E-08 | 1.320E-10 | 1.788E-08 | 4.752E-04 | 4.277E-04 |
| Annual | PTO | 2.648E-07 | 2.073E-06 | 8.146E-07 | 2.020E-08 | 0.000E+00 | 0.000E+00 | 4.422E-08 | 4.422E-08 | 0.000E+00 | 0.000E+00 | 4.068E-08 | 4.068E-08 | 2.117E-03 | 1.905E-03 |
| Annual | SBUS | 1.339E-07 | 2.592E-06 | 8.998E-07 | 1.061E-08 | 1.064E-08 | 5.038E-07 | 3.367E-08 | 5.481E-07 | 2.660E-09 | 2.159E-07 | 3.097E-08 | 2.495E-07 | 8.921E-04 | 8.029E-04 |
| Annual | T6 Ag | 8.865E-08 | 1.094E-06 | 3.654E-07 | 1.053E-08 | 1.200E-08 | 1.303E-07 | 3.663E-08 | 1.790E-07 | 3.000E-09 | 5.586E-08 | 3.370E-08 | 9.256E-08 | 1.083E-03 | 9.747E-04 |
| Annual | T6 CAIRP heavy | 7.742E-08 | 8.974E-07 | 3.191E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.080E-08 | 1.731E-07 | 3.000E-09 | 5.586E-08 | 2.833E-08 | 8.719E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 CAIRP small | 7.357E-08 | 8.252E-07 | 3.032E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 2.876E-08 | 1.711E-07 | 3.000E-09 | 5.586E-08 | 2.646E-08 | 8.532E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 instate construction heavy | 8.394E-08 | 1.019E-06 | 3.459E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.424E-08 | 1.766E-07 | 3.000E-09 | 5.586E-08 | 3.151E-08 | 9.037E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 instate construction small | 7.677E-08 | 8.852E-07 | 3.164E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.045E-08 | 1.728E-07 | 3.000E-09 | 5.586E-08 | 2.802E-08 | 8.688E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 instate heavy | 8.402E-08 | 1.021E-06 | 3.463E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.429E-08 | 1.766E-07 | 3.000E-09 | 5.586E-08 | 3.154E-08 | 9.040E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 instate small | 7.679E-08 | 8.857E-07 | 3.165E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.047E-08 | 1.728E-07 | 3.000E-09 | 5.586E-08 | 2.803E-08 | 8.689E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 OOS heavy | 7.742E-08 | 8.974E-07 | 3.191E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 3.080E-08 | 1.731E-07 | 3.000E-09 | 5.586E-08 | 2.833E-08 | 8.719E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 OOS small | 7.357E-08 | 8.252E-07 | 3.032E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 2.876E-08 | 1.711E-07 | 3.000E-09 | 5.586E-08 | 2.646E-08 | 8.532E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6 Public | 6.559E-08 | 8.771E-07 | 2.706E-07 | 1.054E-08 | 1.200E-08 | 1.303E-07 | 2.484E-08 | 1.672E-07 | 3.000E-09 | 5.586E-08 | 2.286E-08 | 8.172E-08 | 1.084E-03 | 9.757E-04 |
| Annual | T6 utility | 6.197E-08 | 6.066E-07 | 2.554E-07 | 1.052E-08 | 1.200E-08 | 1.303E-07 | 2.260E-08 | 1.649E-07 | 3.000E-09 | 5.586E-08 | 2.079E-08 | 7.965E-08 | 1.083E-03 | 9.745E-04 |
| Annual | T6TS | 1.039E-08 | 1.670E-07 | 2.154E-07 | 5.811E-09 | 8.000E-09 | 3.675E-08 | 1.414E-10 | 4.489E-08 | 2.000E-09 | 1.575E-08 | 1.312E-10 | 1.788E-08 | 4.752E-04 | 4.277E-04 |
| Annual | T7 Ag | 1.846E-07 | 1.855E-06 | 8.569E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 5.902E-08 | 1.568E-07 | 9.000E-09 | 2.646E-08 | 5.430E-08 | 8.976E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 CAIRP | 1.902E-07 | 1.960E-06 | 8.837E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 6.175E-08 | 1.595E-07 | 9.000E-09 | 2.646E-08 | 5.681E-08 | 9.227E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 CAIRP construction | 1.902E-07 | 1.960E-06 | 8.837E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 6.176E-08 | 1.595E-07 | 9.000E-09 | 2.646E-08 | 5.682E-08 | 9.228E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 NNOOS | 1.651E-07 | 1.572E-06 | 7.664E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 5.122E-08 | 1.490E-07 | 9.000E-09 | 2.646E-08 | 4.712E-08 | 8.258E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 NOOS | 1.902E-07 | 1.960E-06 | 8.837E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 6.175E-08 | 1.595E-07 | 9.000E-09 | 2.646E-08 | 5.681E-08 | 9.227E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 other port | | | | | | | | | | | | | | |
| Annual | T7 POAK | | | | | | | | | | | | | | |
| Annual | T7 POLA | 2.289E-07 | 2.559E-06 | 1.065E-06 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 7.801E-08 | 1.757E-07 | 9.000E-09 | 2.646E-08 | 7.177E-08 | 1.072E-07 | 1.674E-03 | 1.506E-03 |
| Annual | T7 Public | 1.242E-07 | 2.573E-06 | 5.788E-07 | 1.619E-08 | 3.600E-08 | 6.174E-08 | 3.798E-08 | 1.357E-07 | 9.000E-09 | 2.646E-08 | 3.494E-08 | 7.040E-08 | 1.681E-03 | 1.513E-03 |
| Annual | T7 Single | 1.542E-07 | 1.401E-06 | 7.150E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 4.656E-08 | 1.443E-07 | 9.000E-09 | 2.646E-08 | 4.283E-08 | 7.829E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 single construction | 1.542E-07 | 1.402E-06 | 7.153E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 4.658E-08 | 1.443E-07 | 9.000E-09 | 2.646E-08 | 4.286E-08 | 7.832E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 SWCV | 1.402E-07 | 2.750E-06 | 6.534E-07 | 1.619E-08 | 3.600E-08 | 6.174E-08 | 4.420E-08 | 1.419E-07 | 9.000E-09 | 2.646E-08 | 4.066E-08 | 7.612E-08 | 1.681E-03 | 1.513E-03 |
| Annual | T7 tractor | 1.911E-07 | 1.971E-06 | 8.876E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 6.205E-08 | 1.598E-07 | 9.000E-09 | 2.646E-08 | 5.709E-08 | 9.255E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 tractor construction | 1.915E-07 | 1.977E-06 | 8.895E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 6.222E-08 | 1.600E-07 | 9.000E-09 | 2.646E-08 | 5.724E-08 | 9.270E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7 utility | 1.251E-07 | 9.539E-07 | 5.791E-07 | 1.612E-08 | 3.600E-08 | 6.174E-08 | 3.438E-08 | 1.321E-07 | 9.000E-09 | 2.646E-08 | 3.163E-08 | 6.709E-08 | 1.674E-03 | 1.506E-03 |
| Annual | T7IS | 2.724E-07 | 3.943E-06 | 1.983E-05 | 6.199E-09 | 8.000E-09 | 3.675E-08 | 1.273E-10 | 4.488E-08 | 2.000E-09 | 1.575E-08 | 1.181E-10 | 1.787E-08 | 4.752E-04 | 4.277E-04 |
| Annual | UBUS | 1.736E-07 | 4.142E-06 | 1.072E-06 | 1.813E-08 | 8.000E-09 | 6.337E-07 | 6.269E-08 | 7.044E-07 | 2.000E-09 | 2.716E-07 | 5.767E-08 | 3.313E-07 | 1.820E-03 | 1.638E-03 |

CalEEMod – 2006 General Plan (2035 Emission Rates)

NewportBeach2006GP
Orange County, Annual

1.0 Project Characteristics**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,279.97 | 1000sqft | 258.95 | 11,279,966.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,511.00 | Student | 12.50 | 544,341.54 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 5,561.00 | Room | 185.37 | 8,074,572.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 2,950.00 | Dwelling Unit | 47.58 | 2,950,000.00 | 8437 |
| Apartments Low Rise | 11,047.00 | Dwelling Unit | 690.44 | 11,047,000.00 | 31594 |
| Apartments Mid Rise | 1,222.00 | Dwelling Unit | 32.16 | 1,222,000.00 | 3495 |
| Condo/Townhouse | 18,559.00 | Dwelling Unit | 1,159.94 | 18,559,000.00 | 53079 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,666.00 | Dwelling Unit | 5,411.04 | 29,998,800.00 | 47665 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,636.03 | 1000sqft | 37.56 | 1,636,025.00 | 0 |
| Strip Mall | 5,644.91 | 1000sqft | 129.59 | 5,644,909.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | Operational Year | | 2035 | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

NewportBeach2006GP
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - 2006 GP

Off-road Equipment - 2006 GP

Trips and VMT - 2006 GP

Architectural Coating - 2006 GP

Woodstoves - No Wood Stoves

Area Coating -

Water And Wastewater - treated wastewater and digestion

Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 39,055,337.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 117,166,012.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 43,879,185.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 131,637,555.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 2,507.50 | 2,950.00 |
| tblFireplaces | NumberGas | 9,389.95 | 3,512.99 |
| tblFireplaces | NumberGas | 1,038.70 | 1,029.06 |
| tblFireplaces | NumberGas | 15,775.15 | 7,032.36 |
| tblFireplaces | NumberGas | 368.05 | 0.00 |
| tblFireplaces | NumberGas | 337.45 | 0.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,166.10 | 4,060.49 |
| tblFireplaces | NumberNoFireplace | 295.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,104.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 122.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,855.90 | 11,343.68 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,666.60 | 12,405.43 |
| tblFireplaces | NumberWood | 147.50 | 0.00 |
| tblFireplaces | NumberWood | 552.35 | 119.59 |
| tblFireplaces | NumberWood | 61.10 | 3.06 |
| tblFireplaces | NumberWood | 927.95 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 833.30 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,280,000.00 | 11,279,966.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |

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| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |
| tblLandUse | LandUseSquareFeet | 1,636,030.00 | 1,636,025.00 |
| tblLandUse | LandUseSquareFeet | 5,644,910.00 | 5,644,909.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 1,357.00 | 6,584.33 |
| tblSolidWaste | SolidWasteGenerationRate | 5,081.62 | 24,656.63 |
| tblSolidWaste | SolidWasteGenerationRate | 562.12 | 2,727.47 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,537.14 | 41,423.22 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,188.26 | 1,188.26 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,490.40 | 172,921.88 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 3,044.65 | 4,059.53 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,717.83 | 9,315.53 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,542.65 | 37,198.10 |
| tblSolidWaste | SolidWasteGenerationRate | 5,927.16 | 32,142.11 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,348.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

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| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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| | | | |
|----------|-------------------------------------|------------------|------------------|
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | IndoorWaterUseRate | 192,204,375.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 719,756,521.04 | 0.00 |
| tbiWater | IndoorWaterUseRate | 79,618,219.31 | 0.00 |
| tbiWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,209,193,561.51 | 0.00 |
| tbiWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 15,784,226.64 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tbiWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,004,836,677.37 | 0.00 |
| tbiWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tbiWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tbiWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tbiWater | IndoorWaterUseRate | 141,064,607.97 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tbiWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tbiWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tbiWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tbiWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tbiWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tbiWater | IndoorWaterUseRate | 121,184,867.32 | 2,021,624,324.04 |
| tbiWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tbiWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,085,856,991.01 | 3,301,404,521.02 |
| tbiWater | IndoorWaterUseRate | 418,132,717.25 | 0.00 |
| tbiWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 121,172,323.74 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 453,759,545.87 | 0.00 |

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|----------|---------------------|------------------|----------------|
| tblWater | OutdoorWaterUseRate | 50,194,094.78 | 0.00 |
| tblWater | OutdoorWaterUseRate | 14,107,158.58 | 0.00 |
| tblWater | OutdoorWaterUseRate | 342,944,076.87 | 780,713,790.72 |
| tblWater | OutdoorWaterUseRate | 762,317,680.08 | 0.00 |
| tblWater | OutdoorWaterUseRate | 17,785,632.60 | 0.00 |
| tblWater | OutdoorWaterUseRate | 8,599,113.20 | 0.00 |
| tblWater | OutdoorWaterUseRate | 40,588,011.36 | 0.00 |
| tblWater | OutdoorWaterUseRate | 157,514.62 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,228,770,866.77 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,869,534.66 | 0.00 |
| tblWater | OutdoorWaterUseRate | 7,768,234.55 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,771,821.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,231,829.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 15,673,845.33 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,451,497.06 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,727,037.53 | 0.00 |
| tblWater | OutdoorWaterUseRate | 16,306,919.50 | 0.00 |
| tblWater | OutdoorWaterUseRate | 391,775.67 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,563,734.01 | 0.00 |
| tblWater | OutdoorWaterUseRate | 25,569,681.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,993,552.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 74,274,596.10 | 505,406,081.01 |
| tblWater | OutdoorWaterUseRate | 13,144,116.47 | 0.00 |
| tblWater | OutdoorWaterUseRate | 684,562,016.07 | 825,351,130.26 |
| tblWater | OutdoorWaterUseRate | 256,274,891.22 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

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| | | | |
|---------------|--------------------|--------|------|
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 147.50 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 552.35 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 61.10 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 927.95 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 833.30 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 147.50 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 552.35 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 61.10 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 927.95 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 833.30 | 0.00 |

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2.0 Emissions Summary

**2.2 Overall Operational
Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |
| Energy | 8.4979 | 74.4624 | 44.4216 | 0.4635 | | 5.8713 | 5.8713 | | 5.8713 | 5.8713 | 0.0000 | 283,577.8791 | 283,577.8791 | 10.7813 | 3.4390 | 284,870.3589 |
| Mobile | 288.6452 | 556.6401 | 2,872.6399 | 13.3232 | 934.8435 | 14.7897 | 949.6331 | 249.9926 | 13.6620 | 263.6546 | 0.0000 | 844,234.4047 | 844,234.4047 | 23.3870 | 0.0000 | 844,725.5310 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 78,739.0680 | 0.0000 | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,883.2960 | 26,547.5884 | 28,430.8843 | 7.7024 | 4.3480 | 29,940.5246 |
| Total | 976.2452 | 637.5616 | 3,480.6000 | 13.8149 | 934.8435 | 28.4083 | 963.2518 | 249.9926 | 27.2773 | 277.2699 | 81,021.7646 | 1,159,732.1286 | 1,240,753.8932 | 4,696.1330 | 7.9048 | 1,341,823.1589 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |
| Energy | 8.4979 | 74.4624 | 44.4216 | 0.4635 | | 5.8713 | 5.8713 | | 5.8713 | 5.8713 | 0.0000 | 283,577.8791 | 283,577.8791 | 10.7813 | 3.4390 | 284,870.3589 |
| Mobile | 288.6452 | 556.6401 | 2,872.6399 | 13.3232 | 934.8435 | 14.7897 | 949.6331 | 249.9926 | 13.6620 | 263.6546 | 0.0000 | 844,234.4047 | 844,234.4047 | 23.3870 | 0.0000 | 844,725.5310 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 78,739.0680 | 0.0000 | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,883.2960 | 26,547.5884 | 28,430.8843 | 7.6671 | 4.3407 | 29,937.5201 |
| Total | 976.2452 | 637.5616 | 3,480.6000 | 13.8149 | 934.8435 | 28.4083 | 963.2518 | 249.9926 | 27.2773 | 277.2699 | 81,021.7646 | 1,159,732.1286 | 1,240,753.8932 | 4,696.0977 | 7.8975 | 1,341,820.1543 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 |

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|----------|------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|---------|--------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 288.6452 | 556.6401 | 2,872.6399 | 13.3232 | 934.8435 | 14.7897 | 949.6331 | 249.9926 | 13.6620 | 263.6546 | 0.0000 | 844,234.4047 | 844,234.4047 | 23.3870 | 0.0000 | 844,725.5310 |
| Unmitigated | 288.6452 | 556.6401 | 2,872.6399 | 13.3232 | 934.8435 | 14.7897 | 949.6331 | 249.9926 | 13.6620 | 263.6546 | 0.0000 | 844,234.4047 | 844,234.4047 | 23.3870 | 0.0000 | 844,725.5310 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-------------------|-------------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Apartments High Rise | 19,440.50 | 21,122.00 | 17906.50 | 59,685,458 | 59,685,458 |
| Apartments Low Rise | 72,799.73 | 79,096.52 | 67055.29 | 223,506,864 | 223,506,864 |
| Apartments Mid Rise | 8,052.98 | 8,749.52 | 7417.54 | 24,723,942 | 24,723,942 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 122,303.81 | 132,882.44 | 112653.13 | 375,492,342 | 375,492,342 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,399.19 | 0.00 | 0.00 | 14,377,687 | 14,377,687 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 124,192.47 | 26,733.53 | 11054.37 | 265,889,979 | 265,889,979 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 6,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14387.19 | 58,222,060 | 58,222,060 |
| Hotel | 45,433.37 | 45,544.59 | 33087.95 | 101,925,077 | 101,925,077 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 19138.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 70,251.13 | 81,752.42 | 41293.40 | 147,142,873 | 147,142,873 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 159,493.62 | 167,993.28 | 146160.82 | 487,023,362 | 487,023,362 |
| Strip Mall | 250,182.41 | 237,312.02 | 115325.51 | 436,476,575 | 436,476,575 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,057,044.07 | 897,804.11 | 642,761.74 | 2,470,044,414 | 2,470,044,414 |

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4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated: | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 199,477.5271 | 199,477.5271 | 9.1694 | 1.8971 | 200,258.1862 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 199,477.5271 | 199,477.5271 | 9.1694 | 1.8971 | 200,258.1862 |
| NaturalGas Mitigated | 8.4979 | 74.4624 | 44.4216 | 0.4635 | | 5.8713 | 5.8713 | | 5.8713 | 5.8713 | 0.0000 | 84,100.3520 | 84,100.3520 | 1.6119 | 1.5418 | 84,612.1727 |
| NaturalGas Unmitigated | 8.4979 | 74.4624 | 44.4216 | 0.4635 | | 5.8713 | 5.8713 | | 5.8713 | 5.8713 | 0.0000 | 84,100.3520 | 84,100.3520 | 1.6119 | 1.5418 | 84,612.1727 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-------------|---------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Low Rise | 1.21698e+008 | 0.6562 | 5.6076 | 2.3862 | 0.0358 | | 0.4534 | 0.4534 | | 0.4534 | 0.4534 | 0.0000 | 6,494.2543 | 6,494.2543 | 0.1245 | 0.1191 | 6,533.7772 |
| Apartments Mid Rise | 1.05261e+007 | 0.0568 | 0.4850 | 0.2064 | 3.1000e-003 | | 0.0392 | 0.0392 | | 0.0392 | 0.0392 | 0.0000 | 561.7108 | 561.7108 | 0.0108 | 0.0103 | 565.1293 |
| Automobile Care Center | 5.29423e+006 | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5201 | 282.5201 | 5.4100e-003 | 5.1800e-003 | 284.2394 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.93699e+008 | 1.5837 | 13.5332 | 5.7588 | 0.0864 | | 1.0942 | 1.0942 | | 1.0942 | 1.0942 | 0.0000 | 15,672.9147 | 15,672.9147 | 0.3004 | 0.2873 | 15,768.2975 |
| Congregate Care (Assisted Living) | 3.72978e+006 | 0.0201 | 0.1719 | 0.0731 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.0350 | 199.0350 | 3.8100e-003 | 3.6500e-003 | 200.2463 |
| Day-Care Center | 967595 | 5.2200e-003 | 0.0474 | 0.0398 | 2.8000e-004 | | 3.6000e-003 | 3.6000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 51.6346 | 51.6346 | 9.9000e-004 | 9.5000e-004 | 51.9488 |
| Elementary School | 6.75528e+006 | 0.0364 | 0.3311 | 0.2782 | 1.9900e-003 | | 0.0252 | 0.0252 | | 0.0252 | 0.0252 | 0.0000 | 360.4874 | 360.4874 | 6.9100e-003 | 6.6100e-003 | 362.6813 |
| Apartments High Rise | 2.54107e+007 | 0.1370 | 1.1709 | 0.4983 | 7.4700e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | 0.0000 | 1,356.0123 | 1,356.0123 | 0.0260 | 0.0249 | 1,364.2647 |
| Fast Food Restaurant w/o Drive Thru | 2.14169e+006 | 0.0116 | 0.1050 | 0.0882 | 6.3000e-004 | | 7.9800e-003 | 7.9800e-003 | | 7.9800e-003 | 7.9800e-003 | 0.0000 | 114.2885 | 114.2885 | 2.1900e-003 | 2.1000e-003 | 114.9841 |
| General Light Industry | 1.67476e+007 | 0.0903 | 0.8210 | 0.6896 | 4.9300e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | 0.0000 | 893.7161 | 893.7161 | 0.0171 | 0.0164 | 899.1551 |
| General Office Building | 1.08175e+008 | 0.5833 | 5.3027 | 4.4543 | 0.0318 | | 0.4030 | 0.4030 | | 0.4030 | 0.4030 | 0.0000 | 5,772.6232 | 5,772.6232 | 0.1106 | 0.1058 | 5,807.7545 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 2.98266e+006 | 0.0161 | 0.1462 | 0.1228 | 8.8000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 159.1662 | 159.1662 | 3.0500e-003 | 2.9200e-003 | 160.1349 |
| Government Office Building | 611842 | 3.3000e-003 | 0.0300 | 0.0252 | 1.8000e-004 | | 2.2800e-003 | 2.2800e-003 | | 2.2800e-003 | 2.2800e-003 | 0.0000 | 32.6502 | 32.6502 | 6.3000e-004 | 6.0000e-004 | 32.8489 |

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| | | | | | | | | | | | | | | | |
|-----------------------------|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Health Club | 2.84869e+006 | 0.0154 | 0.1396 | 0.1173 | 8.4000e-004 | 0.0106 | 0.0106 | 0.0106 | 0.0106 | 0.0000 | 152.0169 | 152.0169 | 2.9100e-003 | 2.7900e-003 | 152.9421 |
| Hospital | 8.65497e+007 | 0.4667 | 4.2426 | 3.5638 | 0.0255 | 0.3224 | 0.3224 | 0.3224 | 0.3224 | 0.0000 | 4,618.6223 | 4,618.6223 | 0.0885 | 0.0847 | 4,646.7305 |
| Hotel | 2.88827e+008 | 1.5574 | 14.1582 | 11.8929 | 0.0850 | 1.0760 | 1.0760 | 1.0760 | 1.0760 | 0.0000 | 15,412.9321 | 15,412.9321 | 0.2954 | 0.2826 | 15,506.7327 |
| Junior High School | 7.60837e+006 | 0.0410 | 0.3730 | 0.3133 | 2.2400e-003 | 0.0283 | 0.0283 | 0.0283 | 0.0283 | 0.0000 | 406.0119 | 406.0119 | 7.7800e-003 | 7.4400e-003 | 408.4828 |
| Library | 1.96842e+006 | 0.0106 | 0.0965 | 0.0811 | 5.8000e-004 | 7.3300e-003 | 7.3300e-003 | 7.3300e-003 | 7.3300e-003 | 0.0000 | 105.0423 | 105.0423 | 2.0100e-003 | 1.9300e-003 | 105.6815 |
| Medical Office Building | 1.39338e+007 | 0.0751 | 0.6830 | 0.5738 | 4.1000e-003 | 0.0519 | 0.0519 | 0.0519 | 0.0519 | 0.0000 | 743.5612 | 743.5612 | 0.0143 | 0.0136 | 748.0863 |
| Mobile Home Park | 7.64354e+006 | 0.0412 | 0.3522 | 0.1499 | 2.2500e-003 | 0.0285 | 0.0285 | 0.0285 | 0.0285 | 0.0000 | 407.8884 | 407.8884 | 7.8200e-003 | 7.4800e-003 | 410.3708 |
| Motel | 9.74617e+006 | 0.0526 | 0.4778 | 0.4013 | 2.8700e-003 | 0.0363 | 0.0363 | 0.0363 | 0.0363 | 0.0000 | 520.0929 | 520.0929 | 9.9700e-003 | 9.5400e-003 | 523.2581 |
| Movie Theater (No Matinee) | 2.16427e+006 | 0.0117 | 0.1061 | 0.0891 | 6.4000e-004 | 8.0600e-003 | 8.0600e-003 | 8.0600e-003 | 8.0600e-003 | 0.0000 | 115.4937 | 115.4937 | 2.2100e-003 | 2.1200e-003 | 116.1966 |
| Place of Worship | 1.13065e+007 | 0.0610 | 0.5542 | 0.4656 | 3.3300e-003 | 0.0421 | 0.0421 | 0.0421 | 0.0421 | 0.0000 | 603.3562 | 603.3562 | 0.0116 | 0.0111 | 607.0281 |
| Quality Restaurant | 4.07026e+007 | 0.2195 | 1.9952 | 1.6760 | 0.0120 | 0.1516 | 0.1516 | 0.1516 | 0.1516 | 0.0000 | 2,172.0441 | 2,172.0441 | 0.0416 | 0.0398 | 2,185.2628 |
| Regional Shopping Center | 3.35385e+006 | 0.0181 | 0.1644 | 0.1381 | 9.9000e-004 | 0.0125 | 0.0125 | 0.0125 | 0.0125 | 0.0000 | 178.9743 | 178.9743 | 3.4300e-003 | 3.2800e-003 | 180.0635 |
| Research & Development | 1.76864e+006 | 9.5400e-003 | 0.0867 | 0.0728 | 5.2000e-004 | 6.5900e-003 | 6.5900e-003 | 6.5900e-003 | 6.5900e-003 | 0.0000 | 94.3812 | 94.3812 | 1.8100e-003 | 1.7300e-003 | 94.9556 |
| Retirement Community | 5.06405e+006 | 0.0273 | 0.2333 | 0.0993 | 1.4900e-003 | 0.0189 | 0.0189 | 0.0189 | 0.0189 | 0.0000 | 270.2372 | 270.2372 | 5.1800e-003 | 4.9500e-003 | 271.8819 |
| Single Family Housing | 4.81372e+008 | 2.5956 | 22.1809 | 9.4387 | 0.1416 | 1.7934 | 1.7934 | 1.7934 | 1.7934 | 0.0000 | 25,687.8650 | 25,687.8650 | 0.4924 | 0.4709 | 25,844.1971 |
| Strip Mall | 1.15721e+007 | 0.0624 | 0.5673 | 0.4765 | 3.4000e-003 | 0.0431 | 0.0431 | 0.0431 | 0.0431 | 0.0000 | 617.5294 | 617.5294 | 0.0118 | 0.0113 | 621.2876 |
| Unrefrigerated Warehouse-No | 811215 | 4.3700e-003 | 0.0398 | 0.0334 | 2.4000e-004 | 3.0200e-003 | 3.0200e-003 | 3.0200e-003 | 3.0200e-003 | 0.0000 | 43.2895 | 43.2895 | 8.3000e-004 | 7.9000e-004 | 43.5530 |
| Total | | 8.4980 | 74.4624 | 44.4216 | 0.4636 | 5.8713 | 5.8713 | 5.8713 | 5.8713 | 0.0000 | 84,100.3520 | 84,100.3520 | 1.6119 | 1.5418 | 84,612.1727 |

Mitigated

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------------------|-----------------|-------------|---------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Low Rise | 1.21698e+008 | 0.6562 | 5.6076 | 2.3862 | 0.0358 | | 0.4534 | 0.4534 | | 0.4534 | 0.4534 | 0.0000 | 6,494.2543 | 6,494.2543 | 0.1245 | 0.1191 | 6,533.7772 |
| Apartments Mid Rise | 1.05261e+007 | 0.0568 | 0.4850 | 0.2064 | 3.1000e-003 | | 0.0392 | 0.0392 | | 0.0392 | 0.0392 | 0.0000 | 561.7108 | 561.7108 | 0.0108 | 0.0103 | 565.1293 |
| Automobile Care Center | 5.29423e+006 | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5201 | 282.5201 | 5.4100e-003 | 5.1800e-003 | 284.2394 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.93699e+008 | 1.5837 | 13.5332 | 5.7588 | 0.0864 | | 1.0942 | 1.0942 | | 1.0942 | 1.0942 | 0.0000 | 15,672.9147 | 15,672.9147 | 0.3004 | 0.2873 | 15,768.2975 |
| Congregate Care (Assisted Living) | 3.72978e+006 | 0.0201 | 0.1719 | 0.0731 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.0350 | 199.0350 | 3.8100e-003 | 3.6500e-003 | 200.2463 |
| Day-Care Center | 967595 | 5.2200e-003 | 0.0474 | 0.0398 | 2.8000e-004 | | 3.6000e-003 | 3.6000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 51.6346 | 51.6346 | 9.9000e-004 | 9.5000e-004 | 51.9488 |
| Elementary School | 6.75528e+006 | 0.0364 | 0.3311 | 0.2782 | 1.9900e-003 | | 0.0252 | 0.0252 | | 0.0252 | 0.0252 | 0.0000 | 360.4874 | 360.4874 | 6.9100e-003 | 6.6100e-003 | 362.6813 |
| Fast Food Restaurant w/o | 2.14169e+006 | 0.0116 | 0.1050 | 0.0882 | 6.3000e-004 | | 7.9800e-003 | 7.9800e-003 | | 7.9800e-003 | 7.9800e-003 | 0.0000 | 114.2885 | 114.2885 | 2.1900e-003 | 2.1000e-003 | 114.9841 |
| Apartments High Rise | 2.54107e+007 | 0.1370 | 1.1709 | 0.4983 | 7.4700e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | 0.0000 | 1,356.0123 | 1,356.0123 | 0.0260 | 0.0249 | 1,364.2647 |

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| | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| General Light Industry | 1.67476e+007 | 0.0903 | 0.8210 | 0.6896 | 4.9300e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | 0.0000 | 893.7161 | 893.7161 | 0.0171 | 0.0164 | 899.1551 |
| General Office Building | 1.08175e+008 | 0.5833 | 5.3027 | 4.4543 | 0.0318 | | 0.4030 | 0.4030 | | 0.4030 | 0.4030 | 0.0000 | 5,772.6232 | 5,772.6232 | 0.1106 | 0.1058 | 5,807.7545 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 2.98266e+006 | 0.0161 | 0.1462 | 0.1228 | 8.8000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 159.1662 | 159.1662 | 3.0500e-003 | 2.9200e-003 | 160.1349 |
| Government Office Building | 611842 | 3.3000e-003 | 0.0300 | 0.0252 | 1.8000e-004 | | 2.2800e-003 | 2.2800e-003 | | 2.2800e-003 | 2.2800e-003 | 0.0000 | 32.6502 | 32.6502 | 6.3000e-004 | 6.0000e-004 | 32.8489 |
| Health Club | 2.84869e+006 | 0.0154 | 0.1396 | 0.1173 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | 0.0000 | 152.0169 | 152.0169 | 2.9100e-003 | 2.7900e-003 | 152.9421 |
| Hospital | 8.65497e+007 | 0.4667 | 4.2426 | 3.5638 | 0.0255 | | 0.3224 | 0.3224 | | 0.3224 | 0.3224 | 0.0000 | 4,618.6223 | 4,618.6223 | 0.0885 | 0.0847 | 4,646.7305 |
| Hotel | 2.88827e+008 | 1.5574 | 14.1582 | 11.8929 | 0.0850 | | 1.0760 | 1.0760 | | 1.0760 | 1.0760 | 0.0000 | 15,412.9321 | 15,412.9321 | 0.2954 | 0.2826 | 15,506.7327 |
| Junior High School | 7.60837e+006 | 0.0410 | 0.3730 | 0.3133 | 2.2400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 406.0119 | 406.0119 | 7.7800e-003 | 7.4400e-003 | 408.4828 |
| Library | 1.96842e+006 | 0.0106 | 0.0965 | 0.0811 | 5.8000e-004 | | 7.3300e-003 | 7.3300e-003 | | 7.3300e-003 | 7.3300e-003 | 0.0000 | 105.0423 | 105.0423 | 2.0100e-003 | 1.9300e-003 | 105.6815 |
| Medical Office Building | 1.39338e+007 | 0.0751 | 0.6830 | 0.5738 | 4.1000e-003 | | 0.0519 | 0.0519 | | 0.0519 | 0.0519 | 0.0000 | 743.5612 | 743.5612 | 0.0143 | 0.0136 | 748.0863 |
| Mobile Home Park | 7.64354e+006 | 0.0412 | 0.3522 | 0.1499 | 2.2500e-003 | | 0.0285 | 0.0285 | | 0.0285 | 0.0285 | 0.0000 | 407.8884 | 407.8884 | 7.8200e-003 | 7.4800e-003 | 410.3708 |
| Motel | 9.74617e+006 | 0.0526 | 0.4778 | 0.4013 | 2.8700e-003 | | 0.0363 | 0.0363 | | 0.0363 | 0.0363 | 0.0000 | 520.0929 | 520.0929 | 9.9700e-003 | 9.5400e-003 | 523.2581 |
| Movie Theater (No Matinee) | 2.16427e+006 | 0.0117 | 0.1061 | 0.0891 | 6.4000e-004 | | 8.0600e-003 | 8.0600e-003 | | 8.0600e-003 | 8.0600e-003 | 0.0000 | 115.4937 | 115.4937 | 2.2100e-003 | 2.1200e-003 | 116.1966 |
| Place of Worship | 1.13065e+007 | 0.0610 | 0.5542 | 0.4656 | 3.3300e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | 0.0000 | 603.3562 | 603.3562 | 0.0116 | 0.0111 | 607.0281 |
| Quality Restaurant | 4.07026e+007 | 0.2195 | 1.9952 | 1.6760 | 0.0120 | | 0.1516 | 0.1516 | | 0.1516 | 0.1516 | 0.0000 | 2,172.0441 | 2,172.0441 | 0.0416 | 0.0398 | 2,185.2628 |
| Regional Shopping Center | 3.35385e+006 | 0.0181 | 0.1644 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | 0.0000 | 178.9743 | 178.9743 | 3.4300e-003 | 3.2800e-003 | 180.0635 |
| Research & Development | 1.76864e+006 | 9.5400e-003 | 0.0867 | 0.0728 | 5.2000e-004 | | 6.5900e-003 | 6.5900e-003 | | 6.5900e-003 | 6.5900e-003 | 0.0000 | 94.3812 | 94.3812 | 1.8100e-003 | 1.7300e-003 | 94.9556 |
| Retirement Community | 5.06405e+006 | 0.0273 | 0.2333 | 0.0993 | 1.4900e-003 | | 0.0189 | 0.0189 | | 0.0189 | 0.0189 | 0.0000 | 270.2372 | 270.2372 | 5.1800e-003 | 4.9500e-003 | 271.8819 |
| Single Family Housing | 4.81372e+008 | 2.5956 | 22.1809 | 9.4387 | 0.1416 | | 1.7934 | 1.7934 | | 1.7934 | 1.7934 | 0.0000 | 25,687.8650 | 25,687.8650 | 0.4924 | 0.4709 | 25,844.1971 |
| Strip Mall | 1.15721e+007 | 0.0624 | 0.5673 | 0.4765 | 3.4000e-003 | | 0.0431 | 0.0431 | | 0.0431 | 0.0431 | 0.0000 | 617.5294 | 617.5294 | 0.0118 | 0.0113 | 621.2876 |
| Unrefrigerated Warehouse-No | 811215 | 4.3700e-003 | 0.0398 | 0.0334 | 2.4000e-004 | | 3.0200e-003 | 3.0200e-003 | | 3.0200e-003 | 3.0200e-003 | 0.0000 | 43.2895 | 43.2895 | 8.3000e-004 | 7.9000e-004 | 43.5530 |
| Total | | 8.4980 | 74.4624 | 44.4216 | 0.4636 | | 5.8713 | 5.8713 | | 5.8713 | 5.8713 | 0.0000 | 84,100.3520 | 84,100.3520 | 1.6119 | 1.5418 | 84,612.1727 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------------|-------------|-------------|-------------|-------------|
| | | MT/yr | | | |
| Apartments High Rise | 1.02626e+007 | 2,936.8100 | 0.1350 | 0.0279 | 2,948.3033 |
| Apartments Low Rise | 3.97793e+007 | 11,383.5051 | 0.5233 | 0.1083 | 11,428.0546 |
| Apartments Mid Rise | 4.25114e+006 | 1,216.5362 | 0.0559 | 0.0116 | 1,221.2972 |
| Automobile Care Center | 2.26057e+006 | 646.8991 | 0.0297 | 6.1500e-003 | 649.4308 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 8.02608e+007 | 22,967.9859 | 1.0558 | 0.2184 | 23,057.8715 |
| Congregate Care (Assisted Living) | 1.50634e+006 | 431.0640 | 0.0198 | 4.1000e-003 | 432.7510 |
| Day-Care Center | 538766 | 154.1769 | 7.0900e-003 | 1.4700e-003 | 154.7803 |
| Elementary School | 3.7614e+006 | 1,076.3882 | 0.0495 | 0.0102 | 1,080.6006 |
| Fast Food Restaurant w/o Drive-Thru | 319753 | 91.5027 | 4.2100e-003 | 8.7000e-004 | 91.8608 |
| General Light Industry | 7.15101e+006 | 2,046.3827 | 0.0941 | 0.0195 | 2,054.3913 |
| General Office Building | 1.76193e+008 | 50,420.6226 | 2.3177 | 0.4795 | 50,617.9447 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8581e+006 | 1,390.2277 | 0.0639 | 0.0132 | 1,395.6684 |
| Government Office Building | 996556 | 285.1813 | 0.0131 | 2.7100e-003 | 286.2974 |
| Health Club | 1.21635e+006 | 348.0801 | 0.0160 | 3.3100e-003 | 349.4424 |
| Hospital | 2.35459e+007 | 6,738.0502 | 0.3097 | 0.0641 | 6,764.4197 |
| Hotel | 8.14724e+007 | 23,314.7124 | 1.0717 | 0.2217 | 23,405.9549 |
| Junior High School | 4.23641e+006 | 1,212.3208 | 0.0557 | 0.0115 | 1,217.0652 |
| Library | 840489 | 240.5201 | 0.0111 | 2.2900e-003 | 241.4614 |
| Medical Office Building | 2.26951e+007 | 6,494.5891 | 0.2985 | 0.0618 | 6,520.0058 |
| Mobile Home Park | 1.9698e+006 | 563.6912 | 0.0259 | 5.3600e-003 | 565.8972 |
| Motel | 2.7492e+006 | 786.7300 | 0.0362 | 7.4800e-003 | 789.8089 |
| Movie Theater (No Matinee) | 924116 | 264.4513 | 0.0122 | 2.5200e-003 | 265.4862 |
| Place of Worship | 4.82772e+006 | 1,381.5323 | 0.0635 | 0.0131 | 1,386.9389 |
| Quality Restaurant | 6.07688e+006 | 1,739.0014 | 0.0799 | 0.0165 | 1,745.8070 |
| Regional Shopping Center | 2.09411e+007 | 5,992.6552 | 0.2755 | 0.0570 | 6,016.1076 |
| Research & Development | 755185 | 216.1090 | 9.9300e-003 | 2.0600e-003 | 216.9548 |
| Retirement Community | 1.38388e+006 | 396.0211 | 0.0182 | 3.7700e-003 | 397.5709 |

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| | | | | | |
|-----------------------------|--------------|---------------------|---------------|---------------|---------------------|
| Single Family Housing | 1.18156e+008 | 33,812.4611 | 1.5543 | 0.3216 | 33,944.7868 |
| Strip Mall | 7.22548e+007 | 20,676.9415 | 0.9505 | 0.1967 | 20,757.8611 |
| Unrefrigerated Warehouse-No | 881926 | 252.3780 | 0.0116 | 2.4000e-003 | 253.3657 |
| Total | | 199,477.5271 | 9.1694 | 1.8971 | 200,258.1862 |

Mitigated

| Land Use | Electricity Use kWh/yr | Total CO2 | CH4 | N2O | CO2e |
|-----------------------------------|------------------------|-------------|-------------|-------------|-------------|
| | | MT/yr | | | |
| Apartments High Rise | 1.02626e+007 | 2,936.8100 | 0.1350 | 0.0279 | 2,948.3033 |
| Apartments Low Rise | 3.97793e+007 | 11,383.5051 | 0.5233 | 0.1083 | 11,428.0546 |
| Apartments Mid Rise | 4.25114e+006 | 1,216.5362 | 0.0559 | 0.0116 | 1,221.2972 |
| Automobile Care Center | 2.26057e+006 | 646.8991 | 0.0297 | 6.1500e-003 | 649.4308 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 8.02608e+007 | 22,967.9859 | 1.0558 | 0.2184 | 23,057.8715 |
| Congregate Care (Assisted Living) | 1.50634e+006 | 431.0640 | 0.0198 | 4.1000e-003 | 432.7510 |
| Day-Care Center | 538766 | 154.1769 | 7.0900e-003 | 1.4700e-003 | 154.7803 |
| Elementary School | 3.7614e+006 | 1,076.3882 | 0.0495 | 0.0102 | 1,080.6006 |
| Fast Food Restaurant w/o | 319753 | 91.5027 | 4.2100e-003 | 8.7000e-004 | 91.8608 |
| General Light Industry | 7.15101e+006 | 2,046.3827 | 0.0941 | 0.0195 | 2,054.3913 |
| General Office Building | 1.76193e+008 | 50,420.6226 | 2.3177 | 0.4795 | 50,617.9447 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8581e+006 | 1,390.2277 | 0.0639 | 0.0132 | 1,395.6684 |
| Government Office Building | 996556 | 285.1813 | 0.0131 | 2.7100e-003 | 286.2974 |
| Health Club | 1.21635e+006 | 348.0801 | 0.0160 | 3.3100e-003 | 349.4424 |
| Hospital | 2.35459e+007 | 6,738.0502 | 0.3097 | 0.0641 | 6,764.4197 |
| Hotel | 8.14724e+007 | 23,314.7124 | 1.0717 | 0.2217 | 23,405.9549 |
| Junior High School | 4.23641e+006 | 1,212.3208 | 0.0557 | 0.0115 | 1,217.0652 |
| Library | 840489 | 240.5201 | 0.0111 | 2.2900e-003 | 241.4614 |
| Medical Office Building | 2.26951e+007 | 6,494.5891 | 0.2985 | 0.0618 | 6,520.0058 |
| Mobile Home Park | 1.9698e+006 | 563.6912 | 0.0259 | 5.3600e-003 | 565.8972 |
| Motel | 2.7492e+006 | 786.7300 | 0.0362 | 7.4800e-003 | 789.8089 |
| Movie Theater (No Matinee) | 924116 | 264.4513 | 0.0122 | 2.5200e-003 | 265.4862 |

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| | | | | | |
|---------------------------------------|-----------|--------------------------|-----------------|-----------------|--------------------------|
| Place of Worship 006 | 4.82772e+ | 1,381.5323 | 0.0635 | 0.0131 | 1,386.938 9 |
| Quality Restaurant 006 | 6.07688e+ | 1,739.0014 | 0.0799 | 0.0165 | 1,745.807 0 |
| Regional Shopping Center 007 | 2.09411e+ | 5,992.6552 | 0.2755 | 0.0570 | 6,016.107 6 |
| Research & Development | 755185 | 216.1090 | 9.9300e- 003 | 2.0600e- 003 | 216.9548 |
| Retirement Community 006 | 1.38388e+ | 396.0211 | 0.0182 | 3.7700e- 003 | 397.5709 |
| Single Family Housing 008 | 1.18156e+ | 33,812.461 1 | 1.5543 | 0.3216 | 33,944.78 68 |
| Strip Mall 007 | 7.22548e+ | 20,676.941 5 | 0.9505 | 0.1967 | 20,757.86 11 |
| Unrefrigerated Warehouse-No 006 | 881926 | 252.3780 | 0.0116 | 2.4000e- 003 | 253.3657 |
| Total | | 199,477.52 71 | 9.1694 | 1.8971 | 200,258.1 862 |

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6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |
| Unmitigated | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 115.9333 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 517.1528 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 30.1080 | 0.3367 | 32.7338 | 0.0000 | | 4.7946 | 4.7946 | | 4.7913 | 4.7913 | 399.4006 | 4,501.9470 | 4,901.3476 | 0.0863 | 0.1178 | 4,939.6705 |
| Landscaping | 15.9080 | 6.1224 | 530.8047 | 0.0281 | | 2.9528 | 2.9528 | | 2.9528 | 2.9528 | 0.0000 | 870.3096 | 870.3096 | 0.8304 | 0.0000 | 887.7480 |
| Total | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 115.9333 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 517.1528 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 30.1080 | 0.3367 | 32.7338 | 0.0000 | | 4.7946 | 4.7946 | | 4.7913 | 4.7913 | 399.4006 | 4,501.9470 | 4,901.3476 | 0.0863 | 0.1178 | 4,939.6705 |
| Landscaping | 15.9080 | 6.1224 | 530.8047 | 0.0281 | | 2.9528 | 2.9528 | | 2.9528 | 2.9528 | 0.0000 | 870.3096 | 870.3096 | 0.8304 | 0.0000 | 887.7480 |
| Total | 679.1021 | 6.4591 | 563.5385 | 0.0281 | | 7.7474 | 7.7474 | | 7.7441 | 7.7441 | 399.4006 | 5,372.2565 | 5,771.6571 | 0.9167 | 0.1178 | 5,827.4185 |

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7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|--------|--------|-------------|
| Category | MT/yr | | | |
| Mitigated | 28,430.8843 | 7.6671 | 4.3407 | 29,937.5201 |
| Unmitigated | 28,430.8843 | 7.7024 | 4.3480 | 29,940.5246 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|------------|--------|--------|------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 780.7143 | 2,482.1344 | 0.1141 | 0.0236 | 2,491.8483 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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| | | | | | |
|-----------------------------|-------------------|--------------------|---------------|---------------|--------------------|
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2021.62 / 505.406 | 9,855.0328 | 2.8820 | 1.6424 | 10,424.6874 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3301.4 / 825.351 | 16,093.7171 | 4.7064 | 2.6821 | 17,023.9889 |
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 28,430.8843 | 7.7024 | 4.3480 | 29,940.5246 |

Mitigated

| Land Use | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|------------|--------|--------|------------|
| | Mgal | MT/yr | | | |
| Apartments High Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 780.714 | 2,482.1344 | 0.1141 | 0.0236 | 2,491.8483 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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| | | | | | |
|-----------------------------|-------------------|--------------------|---------------|---------------|--------------------|
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2021.62 / 505.406 | 9,855.0328 | 2.8686 | 1.6396 | 10,423.5463 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3301.4 / 825.351 | 16,093.7171 | 4.6845 | 2.6775 | 17,022.1255 |
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 28,430.8843 | 7.6671 | 4.3407 | 29,937.5201 |

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|------------|--------|--------------|
| | MT/yr | | | |
| Unmitigated | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |
| Mitigated | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-------------|------------|--------|-------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 6584.33 | 1,336.5587 | 78.9884 | 0.0000 | 2,995.3142 |
| Apartments Low Rise | 24656.6 | 5,005.0726 | 295.7913 | 0.0000 | 11,216.6903 |
| Apartments Mid Rise | 2727.47 | 553.6525 | 32.7199 | 0.0000 | 1,240.7709 |
| Automobile Care Center | 1393.04 | 282.7739 | 16.7115 | 0.0000 | 633.7146 |
| City Park | 25.9047 | 5.2584 | 0.3108 | 0.0000 | 11.7845 |
| Condo/Townhouse | 41423.2 | 8,408.5401 | 496.9305 | 0.0000 | 18,844.0803 |
| Congregate Care (Assisted Living) | 966.445 | 196.1796 | 11.5939 | 0.0000 | 439.6512 |
| Day-Care Center | 99.6054 | 20.2190 | 1.1949 | 0.0000 | 45.3121 |
| Elementary School | 1188.26 | 241.2055 | 14.2548 | 0.0000 | 540.5572 |
| Fast Food Restaurant w/o Drive-Thru | 7.41862 | 1.5059 | 0.0890 | 0.0000 | 3.3749 |
| General Light Industry | 2005.61 | 407.1209 | 24.0602 | 0.0000 | 912.3842 |
| General Office Building | 172922 | 35,101.5787 | 2,074.4439 | 0.0000 | 78,664.9000 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 397.325 | 80.6535 | 4.7665 | 0.0000 | 180.7497 |
| Government Office Building | 978.054 | 198.5361 | 11.7332 | 0.0000 | 444.9323 |
| Health Club | 168.17 | 34.1370 | 2.0174 | 0.0000 | 76.5032 |
| Hospital | 21956.1 | 4,456.8899 | 263.3946 | 0.0000 | 9,988.1774 |
| Hotel | 4059.53 | 824.0479 | 48.6998 | 0.0000 | 1,846.7445 |

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| | | | | | |
|-----------------------------|---------|--------------------|-------------------|---------------|---------------------|
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 116.204 | 23.5884 | 1.3940 | 0.0000 | 52.8630 |
| Medical Office Building | 22273.8 | 4,521.3708 | 267.2054 | 0.0000 | 10,132.6834 |
| Mobile Home Park | 886.094 | 179.8691 | 10.6300 | 0.0000 | 403.0982 |
| Motel | 101.47 | 20.5975 | 1.2173 | 0.0000 | 46.1603 |
| Place of Worship | 667.466 | 135.4895 | 8.0072 | 0.0000 | 303.6407 |
| Quality Restaurant | 140.99 | 28.6198 | 1.6914 | 0.0000 | 64.1388 |
| Regional Shopping Center | 9315.53 | 1,890.9677 | 111.7530 | 0.0000 | 4,237.7804 |
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 714.232 | 144.9826 | 8.5682 | 0.0000 | 324.9154 |
| Single Family Housing | 37198.1 | 7,550.8772 | 446.2441 | 0.0000 | 16,922.0024 |
| Strip Mall | 32142.1 | 6,524.5582 | 385.5904 | 0.0000 | 14,621.9555 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-------------|------------|--------|-------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 6584.33 | 1,336.5587 | 78.9884 | 0.0000 | 2,995.3142 |
| Apartments Low Rise | 24656.6 | 5,005.0726 | 295.7913 | 0.0000 | 11,216.6903 |
| Apartments Mid Rise | 2727.47 | 553.6525 | 32.7199 | 0.0000 | 1,240.7709 |
| Automobile Care Center | 1393.04 | 282.7739 | 16.7115 | 0.0000 | 633.7146 |
| City Park | 25.9047 | 5.2584 | 0.3108 | 0.0000 | 11.7845 |
| Condo/Townhouse | 41423.2 | 8,408.5401 | 496.9305 | 0.0000 | 18,844.0803 |
| Congregate Care (Assisted Living) | 966.445 | 196.1796 | 11.5939 | 0.0000 | 439.6512 |
| Day-Care Center | 99.6054 | 20.2190 | 1.1949 | 0.0000 | 45.3121 |
| Elementary School | 1188.26 | 241.2055 | 14.2548 | 0.0000 | 540.5572 |
| Fast Food Restaurant w/o Drive-Thru | 7.41862 | 1.5059 | 0.0890 | 0.0000 | 3.3749 |
| General Light Industry | 2005.61 | 407.1209 | 24.0602 | 0.0000 | 912.3842 |
| General Office Building | 172922 | 35,101.5787 | 2,074.4439 | 0.0000 | 78,664.9000 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 397.325 | 80.6535 | 4.7665 | 0.0000 | 180.7497 |

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| | | | | | |
|-----------------------------|---------|--------------------|-------------------|---------------|---------------------|
| Government Office Building | 978.054 | 198.5361 | 11.7332 | 0.0000 | 444.9323 |
| Health Club | 168.17 | 34.1370 | 2.0174 | 0.0000 | 76.5032 |
| Hospital | 21956.1 | 4,456.8899 | 263.3946 | 0.0000 | 9,988.1774 |
| Hotel | 4059.53 | 824.0479 | 48.6998 | 0.0000 | 1,846.7445 |
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 116.204 | 23.5884 | 1.3940 | 0.0000 | 52.8630 |
| Medical Office Building | 22273.8 | 4,521.3708 | 267.2054 | 0.0000 | 10,132.6834 |
| Mobile Home Park | 886.094 | 179.8691 | 10.6300 | 0.0000 | 403.0982 |
| Motel | 101.47 | 20.5975 | 1.2173 | 0.0000 | 46.1603 |
| Place of Worship | 667.466 | 135.4895 | 8.0072 | 0.0000 | 303.6407 |
| Quality Restaurant | 140.99 | 28.6198 | 1.6914 | 0.0000 | 64.1388 |
| Regional Shopping Center | 9315.53 | 1,890.9677 | 111.7530 | 0.0000 | 4,237.7804 |
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 714.232 | 144.9826 | 8.5682 | 0.0000 | 324.9154 |
| Single Family Housing | 37198.1 | 7,550.8772 | 446.2441 | 0.0000 | 16,922.0024 |
| Strip Mall | 32142.1 | 6,524.5582 | 385.5904 | 0.0000 | 14,621.9555 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 78,739.0680 | 4,653.3456 | 0.0000 | 176,459.3259 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,279.97 | 1000sqft | 258.95 | 11,279,966.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,511.00 | Student | 12.50 | 544,341.54 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 5,561.00 | Room | 185.37 | 8,074,572.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 2,950.00 | Dwelling Unit | 47.58 | 2,950,000.00 | 8437 |
| Apartments Low Rise | 11,047.00 | Dwelling Unit | 690.44 | 11,047,000.00 | 31594 |
| Apartments Mid Rise | 1,222.00 | Dwelling Unit | 32.16 | 1,222,000.00 | 3495 |
| Condo/Townhouse | 18,559.00 | Dwelling Unit | 1,159.94 | 18,559,000.00 | 53079 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,666.00 | Dwelling Unit | 5,411.04 | 29,998,800.00 | 47665 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,636.03 | 1000sqft | 37.56 | 1,636,025.00 | 0 |
| Strip Mall | 5,644.91 | 1000sqft | 129.59 | 5,644,909.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - 2006 GP

Off-road Equipment - 2006 GP

Trips and VMT - 2006 GP

Architectural Coating - 2006 GP

Woodstoves - No Wood Stoves

Area Coating -

Water And Wastewater - treated wastewater and digestion

Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 39,055,337.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 117,166,012.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 43,879,185.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 131,637,555.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 2,507.50 | 2,950.00 |
| tblFireplaces | NumberGas | 9,389.95 | 3,512.99 |
| tblFireplaces | NumberGas | 1,038.70 | 1,029.06 |
| tblFireplaces | NumberGas | 15,775.15 | 7,032.36 |
| tblFireplaces | NumberGas | 368.05 | 0.00 |
| tblFireplaces | NumberGas | 337.45 | 0.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,166.10 | 4,060.49 |
| tblFireplaces | NumberNoFireplace | 295.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,104.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 122.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,855.90 | 11,343.68 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,666.60 | 12,405.43 |
| tblFireplaces | NumberWood | 147.50 | 0.00 |
| tblFireplaces | NumberWood | 552.35 | 119.59 |
| tblFireplaces | NumberWood | 61.10 | 3.06 |
| tblFireplaces | NumberWood | 927.95 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 833.30 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,280,000.00 | 11,279,966.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |

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| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |
| tblLandUse | LandUseSquareFeet | 1,636,030.00 | 1,636,025.00 |
| tblLandUse | LandUseSquareFeet | 5,644,910.00 | 5,644,909.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 1,357.00 | 6,584.33 |
| tblSolidWaste | SolidWasteGenerationRate | 5,081.62 | 24,656.63 |
| tblSolidWaste | SolidWasteGenerationRate | 562.12 | 2,727.47 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,537.14 | 41,423.22 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,188.26 | 1,188.26 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,490.40 | 172,921.88 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 3,044.65 | 4,059.53 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,717.83 | 9,315.53 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,542.65 | 37,198.10 |
| tblSolidWaste | SolidWasteGenerationRate | 5,927.16 | 32,142.11 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,348.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

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Orange County, Summer**

| | | | |
|-----------------|--------|-------|------|
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
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| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
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| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |

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| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
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| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
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| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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| | | | |
|----------|-------------------------------------|------------------|------------------|
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | IndoorWaterUseRate | 192,204,375.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 719,756,521.04 | 0.00 |
| tbiWater | IndoorWaterUseRate | 79,618,219.31 | 0.00 |
| tbiWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,209,193,561.51 | 0.00 |
| tbiWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 15,784,226.64 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tbiWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,004,836,677.37 | 0.00 |
| tbiWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tbiWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tbiWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tbiWater | IndoorWaterUseRate | 141,064,607.97 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tbiWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tbiWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tbiWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tbiWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tbiWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tbiWater | IndoorWaterUseRate | 121,184,867.32 | 2,021,624,324.04 |
| tbiWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tbiWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,085,856,991.01 | 3,301,404,521.02 |
| tbiWater | IndoorWaterUseRate | 418,132,717.25 | 0.00 |
| tbiWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 121,172,323.74 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 453,759,545.87 | 0.00 |

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| | | | |
|---------------|--------------------|--------|------|
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 147.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 552.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 61.10 | 0.00 |
| tblWoodstoves | NumberCatalytic | 927.95 | 0.00 |
| tblWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 833.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 147.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 552.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 927.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 833.30 | 0.00 |

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Orange County, Summer

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Energy | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| Mobile | 1,820.4319 | 3,262.4502 | 17,759.6639 | 86.2355 | 5,956.4341 | 92.5656 | 6,048.9997 | 1,590.5429 | 85.5082 | 1,676.0510 | | 6,010,397.9898 | 6,010,397.9898 | 161.4553 | | 6,013,788.5501 |
| Total | 7,871.8622 | 3,746.3780 | 24,868.2132 | 89.0005 | 5,956.4341 | 531.9293 | 6,488.3634 | 1,590.5429 | 524.6072 | 2,115.1500 | 35,221.1059 | 6,923,047.9095 | 6,958,269.0154 | 186.1235 | 19.6990 | 6,968,284.2850 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Energy | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| Mobile | 1,820.4319 | 3,262.4502 | 17,759.6639 | 86.2355 | 5,956.4341 | 92.5656 | 6,048.9997 | 1,590.5429 | 85.5082 | 1,676.0510 | | 6,010,397.9898 | 6,010,397.9898 | 161.4553 | | 6,013,788.5501 |
| Total | 7,871.8622 | 3,746.3780 | 24,868.2132 | 89.0005 | 5,956.4341 | 531.9293 | 6,488.3634 | 1,590.5429 | 524.6072 | 2,115.1500 | 35,221.1059 | 6,923,047.9095 | 6,958,269.0154 | 186.1235 | 19.6990 | 6,968,284.2850 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Orange County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|----------|-----|----------------|
| lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,820.4319 | 3,262.4502 | 17,759.6639 | 86.2355 | 5,956.4341 | 92.5656 | 6,048.9997 | 1,590.5429 | 85.5082 | 1,676.0510 | | 6,010,397.9898 | 6,010,397.9898 | 161.4553 | | 6,013,788.5501 |
| Unmitigated | 1,820.4319 | 3,262.4502 | 17,759.6639 | 86.2355 | 5,956.4341 | 92.5656 | 6,048.9997 | 1,590.5429 | 85.5082 | 1,676.0510 | | 6,010,397.9898 | 6,010,397.9898 | 161.4553 | | 6,013,788.5501 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 19,440.50 | 21,122.00 | 17906.50 | 59,685,458 | 59,685,458 |
| Apartments Low Rise | 72,799.73 | 79,096.52 | 67055.29 | 223,506,864 | 223,506,864 |
| Apartments Mid Rise | 8,052.98 | 8,749.52 | 7417.54 | 24,723,942 | 24,723,942 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 122,303.81 | 132,882.44 | 112653.13 | 375,492,342 | 375,492,342 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,399.19 | 0.00 | 0.00 | 14,377,687 | 14,377,687 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 124,192.47 | 26,733.53 | 11054.37 | 265,889,979 | 265,889,979 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 8,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14387.19 | 58,222,060 | 58,222,060 |
| Hotel | 45,433.37 | 45,544.59 | 33087.95 | 101,925,077 | 101,925,077 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 19138.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 70,251.13 | 81,752.42 | 41293.40 | 147,142,873 | 147,142,873 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 159,493.62 | 167,993.28 | 146160.82 | 487,023,362 | 487,023,362 |
| Strip Mall | 250,182.41 | 237,312.02 | 115325.51 | 436,476,575 | 436,476,575 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,057,044.07 | 897,804.11 | 642,761.74 | 2,470,044,414 | 2,470,044,414 |

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4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| NaturalGas Unmitigated | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 333418 | 3.5957 | 30.7268 | 13.0752 | 0.1961 | | 2.4843 | 2.4843 | | 2.4843 | 2.4843 | | 39,225.6983 | 39,225.6983 | 0.7518 | 0.7191 | 39,464.4193 |
| Apartments Mid Rise | 28838.5 | 0.3110 | 2.6577 | 1.1309 | 0.0170 | | 0.2149 | 0.2149 | | 0.2149 | 0.2149 | | 3,392.7683 | 3,392.7683 | 0.0650 | 0.0622 | 3,413.4161 |
| Automobile Care Center | 14504.7 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 804656 | 8.6777 | 74.1545 | 31.5551 | 0.4733 | | 5.9955 | 5.9955 | | 5.9955 | 5.9955 | | 94,665.3763 | 94,665.3763 | 1.8144 | 1.7355 | 95,241.4940 |
| Congregate Care (Assisted Living) | 10218.6 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2650.95 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18507.6 | 0.1996 | 1.8145 | 1.5242 | 0.0109 | | 0.1379 | 0.1379 | | 0.1379 | 0.1379 | | 2,177.3662 | 2,177.3662 | 0.0417 | 0.0399 | 2,190.6173 |
| Apartments High Rise | 69618.4 | 0.7508 | 6.4158 | 2.7301 | 0.0410 | | 0.5187 | 0.5187 | | 0.5187 | 0.5187 | | 8,190.3981 | 8,190.3981 | 0.1570 | 0.1502 | 8,240.2435 |
| Fast Food Restaurant w/o Drive-Thru | 5867.63 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45883.9 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 296370 | 3.1961 | 29.0558 | 24.4069 | 0.1743 | | 2.2082 | 2.2082 | | 2.2082 | 2.2082 | | 34,867.0021 | 34,867.0021 | 0.6683 | 0.6392 | 35,079.1968 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8171.68 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1676.28 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7804.63 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 791308 | 8.5337 | 77.5792 | 65.1666 | 0.4655 | | 5.8960 | 5.8960 | | 5.8960 | 5.8960 | | 93,095.0654 | 93,095.0654 | 1.7843 | 1.7067 | 93,661.6265 |

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| | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|---------------------|---------------------|---------------|---------------|---------------------|
| Junior High School | 20844.9 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5392.93 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38174.8 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20941.2 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26701.8 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5929.51 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30976.6 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9188.63 | 0.0991 | 0.9009 | 0.7567 | 5.4100e-003 | | 0.0685 | 0.0685 | | 0.0685 | 0.0685 | | 1,081.0157 | 1,081.0157 | 0.0207 | 0.0198 | 1,087.5946 |
| Research & Development | 4845.58 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13874.1 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1.31883e+006 | 14.2227 | 121.5391 | 51.7188 | 0.7758 | | 9.8266 | 9.8266 | | 9.8266 | 9.8266 | | 155,156.2969 | 155,156.2969 | 2.9738 | 2.8445 | 156,100.5522 |
| Strip Mall | 31704.3 | 0.3419 | 3.1083 | 2.6109 | 0.0187 | | 0.2362 | 0.2362 | | 0.2362 | 0.2362 | | 3,729.9157 | 3,729.9157 | 0.0715 | 0.0684 | 3,752.6153 |
| Unrefrigerated Warehouse-No | 2222.51 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.5641 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

Mitigated

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | kBTU/yr | lb/day | | | | | | | | | | | lb/day | | | | |
| Apartments Low Rise | 333.418 | 3.5957 | 30.7268 | 13.0752 | 0.1961 | | 2.4843 | 2.4843 | | 2.4843 | 2.4843 | | 39,225.6983 | 39,225.6983 | 0.7518 | 0.7191 | 39,464.4193 |
| Apartments Mid Rise | 28.8385 | 0.3110 | 2.6577 | 1.1309 | 0.0170 | | 0.2149 | 0.2149 | | 0.2149 | 0.2149 | | 3,392.7683 | 3,392.7683 | 0.0650 | 0.0622 | 3,413.4161 |
| Automobile Care Center | 14.5047 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 804.656 | 8.6777 | 74.1545 | 31.5551 | 0.4733 | | 5.9955 | 5.9955 | | 5.9955 | 5.9955 | | 94,665.3763 | 94,665.3763 | 1.8144 | 1.7355 | 95,241.4940 |
| Congregate Care (Assisted Living) | 10.2186 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2.65095 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18.5076 | 0.1996 | 1.8145 | 1.5242 | 0.0109 | | 0.1379 | 0.1379 | | 0.1379 | 0.1379 | | 2,177.3662 | 2,177.3662 | 0.0417 | 0.0399 | 2,190.6173 |
| Fast Food Restaurant w/o Drive Thru | 5.86763 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| Apartments High Rise | 69.6184 | 0.7508 | 6.4158 | 2.7301 | 0.0410 | | 0.5187 | 0.5187 | | 0.5187 | 0.5187 | | 8,190.3981 | 8,190.3981 | 0.1570 | 0.1502 | 8,240.2435 |
| General Light Industry | 45.8839 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 296.37 | 3.1961 | 29.0558 | 24.4069 | 0.1743 | | 2.2082 | 2.2082 | | 2.2082 | 2.2082 | | 34,867.0021 | 34,867.0021 | 0.6683 | 0.6392 | 35,079.1968 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8.17168 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |

NewportBeach2006GP
Orange County, Summer

| | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|---------------------|---------------------|---------------|---------------|---------------------|
| Government Office Building | 1.67628 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | 0.0125 | 0.0125 | 0.0125 | 0.0125 | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7.80463 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | 0.0582 | 0.0582 | 0.0582 | 0.0582 | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237.123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | 1.7668 | 1.7668 | 1.7668 | 1.7668 | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 791.308 | 8.5337 | 77.5792 | 65.1666 | 0.4655 | 5.8960 | 5.8960 | 5.8960 | 5.8960 | 93,095.0654 | 93,095.0654 | 1.7843 | 1.7067 | 93,661.6265 |
| Junior High School | 20.8449 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | 0.1553 | 0.1553 | 0.1553 | 0.1553 | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5.39293 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | 0.0402 | 0.0402 | 0.0402 | 0.0402 | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38.1748 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | 0.2844 | 0.2844 | 0.2844 | 0.2844 | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20.9412 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | 0.1560 | 0.1560 | 0.1560 | 0.1560 | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26.7018 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | 0.1990 | 0.1990 | 0.1990 | 0.1990 | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5.92951 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | 0.0442 | 0.0442 | 0.0442 | 0.0442 | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30.9766 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | 0.2308 | 0.2308 | 0.2308 | 0.2308 | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111.514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | 0.8309 | 0.8309 | 0.8309 | 0.8309 | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9.18863 | 0.0991 | 0.9009 | 0.7567 | 5.4100e-003 | 0.0685 | 0.0685 | 0.0685 | 0.0685 | 1,081.0157 | 1,081.0157 | 0.0207 | 0.0198 | 1,087.5946 |
| Research & Development | 4.84558 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | 0.0361 | 0.0361 | 0.0361 | 0.0361 | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13.8741 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | 0.1034 | 0.1034 | 0.1034 | 0.1034 | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1318.83 | 14.2227 | 121.5391 | 51.7188 | 0.7758 | 9.8266 | 9.8266 | 9.8266 | 9.8266 | 155,156.2969 | 155,156.2969 | 2.9738 | 2.8445 | 156,100.5522 |
| Strip Mall | 31.7043 | 0.3419 | 3.1083 | 2.6109 | 0.0187 | 0.2362 | 0.2362 | 0.2362 | 0.2362 | 3,729.9157 | 3,729.9157 | 0.0715 | 0.0684 | 3,752.6153 |
| Unrefrigerated Warehouse-No | 2.22251 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | 0.0166 | 0.0166 | 0.0166 | 0.0166 | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.5641 | 408.0130 | 243.4061 | 2.5399 | 32.1715 | 32.1715 | 32.1715 | 32.1715 | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

NewportBeach2006GP
Orange County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|---------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Unmitigated | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 635.2510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,833.7141 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,408.6371 | 26.9354 | 2,618.7060 | 0.0000 | | 383.5701 | 383.5701 | | 383.3055 | 383.3055 | 35,221.1059 | 397,003.7647 | 432,224.8706 | 7.6092 | 10.3862 | 435,604.3702 |
| Landscaping | 127.2641 | 48.9793 | 4,246.4372 | 0.2251 | | 23.6221 | 23.6221 | | 23.6221 | 23.6221 | | 7,674.8165 | 7,674.8165 | 7.3229 | | 7,828.5972 |
| Total | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6872 | 14.9321 | 10.3862 | 443,432.9674 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 635.2510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,833.7141 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,408.6371 | 26.9354 | 2,618.7060 | 0.0000 | | 383.5701 | 383.5701 | | 383.3055 | 383.3055 | 35,221.1059 | 397,003.7647 | 432,224.8706 | 7.6092 | 10.3862 | 435,604.3702 |
| Landscaping | 127.2641 | 48.9793 | 4,246.4372 | 0.2251 | | 23.6221 | 23.6221 | | 23.6221 | 23.6221 | | 7,674.8165 | 7,674.8165 | 7.3229 | | 7,828.5972 |
| Total | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6872 | 14.9321 | 10.3862 | 443,432.9674 |

NewportBeach2006GP
Orange County, Summer

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

NewportBeach2006GP
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,279.97 | 1000sqft | 258.95 | 11,279,966.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,511.00 | Student | 12.50 | 544,341.54 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 5,561.00 | Room | 185.37 | 8,074,572.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 2,950.00 | Dwelling Unit | 47.58 | 2,950,000.00 | 8437 |
| Apartments Low Rise | 11,047.00 | Dwelling Unit | 690.44 | 11,047,000.00 | 31594 |
| Apartments Mid Rise | 1,222.00 | Dwelling Unit | 32.16 | 1,222,000.00 | 3495 |
| Condo/Townhouse | 18,559.00 | Dwelling Unit | 1,159.94 | 18,559,000.00 | 53079 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,666.00 | Dwelling Unit | 5,411.04 | 29,998,800.00 | 47665 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,636.03 | 1000sqft | 37.56 | 1,636,025.00 | 0 |
| Strip Mall | 5,644.91 | 1000sqft | 129.59 | 5,644,909.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

NewportBeach2006GP
Orange County, Winter

- Land Use -
- Construction Phase - 2006 GP
- Off-road Equipment - 2006 GP
- Trips and VMT - 2006 GP
- Architectural Coating - 2006 GP
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 39,055,337.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 117,166,012.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 43,879,185.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 131,637,555.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 2,507.50 | 2,950.00 |
| tblFireplaces | NumberGas | 9,389.95 | 3,512.99 |
| tblFireplaces | NumberGas | 1,038.70 | 1,029.06 |
| tblFireplaces | NumberGas | 15,775.15 | 7,032.36 |
| tblFireplaces | NumberGas | 368.05 | 0.00 |
| tblFireplaces | NumberGas | 337.45 | 0.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,166.10 | 4,060.49 |
| tblFireplaces | NumberNoFireplace | 295.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,104.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 122.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,855.90 | 11,343.68 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,666.60 | 12,405.43 |
| tblFireplaces | NumberWood | 147.50 | 0.00 |
| tblFireplaces | NumberWood | 552.35 | 119.59 |
| tblFireplaces | NumberWood | 61.10 | 3.06 |
| tblFireplaces | NumberWood | 927.95 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 833.30 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,280,000.00 | 11,279,966.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |
| tblLandUse | LandUseSquareFeet | 1,636,030.00 | 1,636,025.00 |

NewportBeach2006GP
Orange County, Winter

| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 5,644,910.00 | 5,644,909.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 1,357.00 | 6,584.33 |
| tblSolidWaste | SolidWasteGenerationRate | 5,081.62 | 24,656.63 |
| tblSolidWaste | SolidWasteGenerationRate | 562.12 | 2,727.47 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,537.14 | 41,423.22 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,188.26 | 1,188.26 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,490.40 | 172,921.88 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 3,044.65 | 4,059.53 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,717.83 | 9,315.53 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,542.65 | 37,198.10 |
| tblSolidWaste | SolidWasteGenerationRate | 5,927.16 | 32,142.11 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,348.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

NewportBeach2006GP
Orange County, Winter

| | | | |
|-----------------|--------|-------|------|
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |

NewportBeach2006GP
Orange County, Winter

| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

NewportBeach2006GP
Orange County, Winter

| | | | |
|----------|-------------------------------------|------------------|------------------|
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | IndoorWaterUseRate | 192,204,375.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 719,756,521.04 | 0.00 |
| tbiWater | IndoorWaterUseRate | 79,618,219.31 | 0.00 |
| tbiWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,209,193,561.51 | 0.00 |
| tbiWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 15,784,226.64 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tbiWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,004,836,677.37 | 0.00 |
| tbiWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tbiWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tbiWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tbiWater | IndoorWaterUseRate | 141,064,607.97 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tbiWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tbiWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tbiWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tbiWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tbiWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tbiWater | IndoorWaterUseRate | 121,184,867.32 | 2,021,624,324.04 |
| tbiWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tbiWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,085,856,991.01 | 3,301,404,521.02 |
| tbiWater | IndoorWaterUseRate | 418,132,717.25 | 0.00 |
| tbiWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 121,172,323.74 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 453,759,545.87 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 50,194,094.78 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 14,107,158.58 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 342,944,076.87 | 780,713,790.72 |

NewportBeach2006GP
Orange County, Winter

| | | | |
|---------------|--------------------|--------|------|
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 147.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 552.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 61.10 | 0.00 |
| tblWoodstoves | NumberCatalytic | 927.95 | 0.00 |
| tblWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 833.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 147.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 552.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 927.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 833.30 | 0.00 |

NewportBeach2006GP
Orange County, Winter

2.0 Emissions Summary

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Energy | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| Mobile | 1,924.3642 | 3,419.0023 | 18,003.1416 | 82.4382 | 5,956.4341 | 92.8772 | 6,049.3113 | 1,590.5429 | 85.7948 | 1,676.3376 | | 5,762,982.7576 | 5,762,982.7576 | 161.7228 | | 5,766,378.9371 |
| Total | 7,975.7945 | 3,902.9301 | 25,111.6909 | 85.2032 | 5,956.4341 | 532.2409 | 6,488.6750 | 1,590.5429 | 524.8938 | 2,115.4367 | 35,221.1059 | 6,675,632.6773 | 6,710,853.7833 | 186.3911 | 19.6990 | 6,720,874.6719 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,004.87 | 75.9148 | 6,865.14 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Energy | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| Mobile | 1,924.3642 | 3,419.0023 | 18,003.1416 | 82.4382 | 5,956.4341 | 92.8772 | 6,049.3113 | 1,590.5429 | 85.7948 | 1,676.3376 | | 5,762,982.7576 | 5,762,982.7576 | 161.7228 | | 5,766,378.9371 |
| Total | 7,975.7945 | 3,902.9301 | 25,111.6909 | 85.2032 | 5,956.4341 | 532.2409 | 6,488.6750 | 1,590.5429 | 524.8938 | 2,115.4367 | 35,221.1059 | 6,675,632.6773 | 6,710,853.7833 | 186.3911 | 19.6990 | 6,720,874.6719 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NewportBeach2006GP
Orange County, Winter

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|----------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,924.3642 | 3,419.0023 | 18,003.1416 | 82.4382 | 5,956.4341 | 92.8772 | 6,049.3113 | 1,590.5429 | 85.7948 | 1,676.3376 | | 5,762.9827 | 5,762.9827 | 161.7228 | | 5,766,378.9371 |
| Unmitigated | 1,924.3642 | 3,419.0023 | 18,003.1416 | 82.4382 | 5,956.4341 | 92.8772 | 6,049.3113 | 1,590.5429 | 85.7948 | 1,676.3376 | | 5,762.9827 | 5,762.9827 | 161.7228 | | 5,766,378.9371 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 19,440.50 | 21,122.00 | 17906.50 | 59,685,458 | 59,685,458 |
| Apartments Low Rise | 72,799.73 | 79,096.52 | 67055.29 | 223,506,864 | 223,506,864 |
| Apartments Mid Rise | 8,052.98 | 8,749.52 | 7417.54 | 24,723,942 | 24,723,942 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 122,303.81 | 132,882.44 | 112653.13 | 375,492,342 | 375,492,342 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,399.19 | 0.00 | 0.00 | 14,377,687 | 14,377,687 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 124,192.47 | 26,733.53 | 11054.37 | 265,889,979 | 265,889,979 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 8,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14387.19 | 58,222,060 | 58,222,060 |
| Hotel | 45,433.37 | 45,544.59 | 33087.95 | 101,925,077 | 101,925,077 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 19138.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 70,251.13 | 81,752.42 | 41293.40 | 147,142,873 | 147,142,873 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 159,493.62 | 167,993.28 | 146160.82 | 487,023,362 | 487,023,362 |
| Strip Mall | 250,182.41 | 237,312.02 | 115325.51 | 436,476,575 | 436,476,575 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,057,044.07 | 897,804.11 | 642,761.74 | 2,470,044,414 | 2,470,044,414 |

NewportBeach2006GP
Orange County, Winter

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

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Orange County, Winter

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |
| NaturalGas Unmitigated | 46.5640 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 69618.4 | 0.7508 | 6.4158 | 2.7301 | 0.0410 | | 0.5187 | 0.5187 | | 0.5187 | 0.5187 | | 8,190.3981 | 8,190.3981 | 0.1570 | 0.1502 | 8,240.2435 |
| Apartments Low Rise | 333418 | 3.5957 | 30.7268 | 13.0752 | 0.1961 | | 2.4843 | 2.4843 | | 2.4843 | 2.4843 | | 39,225.6983 | 39,225.6983 | 0.7518 | 0.7191 | 39,464.4193 |
| Apartments Mid Rise | 28838.5 | 0.3110 | 2.6577 | 1.1309 | 0.0170 | | 0.2149 | 0.2149 | | 0.2149 | 0.2149 | | 3,392.7683 | 3,392.7683 | 0.0650 | 0.0622 | 3,413.4161 |
| Automobile Care Center | 14504.7 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 804656 | 8.6777 | 74.1545 | 31.5551 | 0.4733 | | 5.9955 | 5.9955 | | 5.9955 | 5.9955 | | 94,665.3763 | 94,665.3763 | 1.8144 | 1.7355 | 95,241.4940 |
| Congregate Care (Assisted Living) | 10218.6 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2650.95 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18507.6 | 0.1996 | 1.8145 | 1.5242 | 0.0109 | | 0.1379 | 0.1379 | | 0.1379 | 0.1379 | | 2,177.3662 | 2,177.3662 | 0.0417 | 0.0399 | 2,190.6173 |
| Fast Food Restaurant w/o Drive-Thru | 5867.63 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45883.9 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 296370 | 3.1961 | 29.0558 | 24.4069 | 0.1743 | | 2.2082 | 2.2082 | | 2.2082 | 2.2082 | | 34,867.0021 | 34,867.0021 | 0.6683 | 0.6392 | 35,079.1968 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8171.68 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1676.28 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7804.63 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |

NewportBeach2006GP
Orange County, Winter

| | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|---------------------|---------------------|---------------|---------------|---------------------|
| Hotel | 791308 | 8.5337 | 77.5792 | 65.1666 | 0.4655 | | 5.8960 | 5.8960 | | 5.8960 | 5.8960 | | 93,095.0654 | 93,095.0654 | 1.7843 | 1.7067 | 93,661.6265 |
| Junior High School | 20844.9 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.33677 | 2,452.33677 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5392.93 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38174.8 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.15544 | 4,491.15544 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20941.2 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.67133 | 2,463.67133 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26701.8 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.39355 | 3,141.39355 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5929.51 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30976.6 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.30855 | 3,644.30855 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9188.63 | 0.0991 | 0.9009 | 0.7567 | 5.4100e-003 | | 0.0685 | 0.0685 | | 0.0685 | 0.0685 | | 1,081.01577 | 1,081.01577 | 0.0207 | 0.0198 | 1,087.5946 |
| Research & Development | 4845.58 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13874.1 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.24966 | 1,632.24966 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1.31883e-006 | 14.2227 | 121.5391 | 51.7188 | 0.7758 | | 9.8266 | 9.8266 | | 9.8266 | 9.8266 | | 155,156.269 | 155,156.269 | 2.9738 | 2.8445 | 156,100.5522 |
| Strip Mall | 31704.3 | 0.3419 | 3.1083 | 2.6109 | 0.0187 | | 0.2362 | 0.2362 | | 0.2362 | 0.2362 | | 3,729.91577 | 3,729.91577 | 0.0715 | 0.0684 | 3,752.6153 |
| Unrefrigerated Warehouse-No | 2222.51 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.5641 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

Mitigated

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 333.418 | 3.5957 | 30.7268 | 13.0752 | 0.1961 | | 2.4843 | 2.4843 | | 2.4843 | 2.4843 | | 39,225.6983 | 39,225.6983 | 0.7518 | 0.7191 | 39,464.4193 |
| Apartments Mid Rise | 28.8385 | 0.3110 | 2.6577 | 1.1309 | 0.0170 | | 0.2149 | 0.2149 | | 0.2149 | 0.2149 | | 3,392.76833 | 3,392.76833 | 0.0650 | 0.0622 | 3,413.4161 |
| Automobile Care Center | 14.5047 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.43877 | 1,706.43877 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 804.656 | 8.6777 | 74.1545 | 31.5551 | 0.4733 | | 5.9955 | 5.9955 | | 5.9955 | 5.9955 | | 94,665.3763 | 94,665.3763 | 1.8144 | 1.7355 | 95,241.4940 |
| Congregate Care (Assisted Living) | 10.2186 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.18399 | 1,202.18399 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2.65095 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18.5076 | 0.1996 | 1.8145 | 1.5242 | 0.0109 | | 0.1379 | 0.1379 | | 0.1379 | 0.1379 | | 2,177.36622 | 2,177.36622 | 0.0417 | 0.0399 | 2,190.6173 |
| Apartments High Rise | 69.6184 | 0.7508 | 6.4158 | 2.7301 | 0.0410 | | 0.5187 | 0.5187 | | 0.5187 | 0.5187 | | 8,190.39811 | 8,190.39811 | 0.1570 | 0.1502 | 8,240.2435 |
| Fast Food Restaurant w/o Drive-Thru | 5.86763 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45.8839 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.10066 | 5,398.10066 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 296.37 | 3.1961 | 29.0558 | 24.4069 | 0.1743 | | 2.2082 | 2.2082 | | 2.2082 | 2.2082 | | 34,867.0021 | 34,867.0021 | 0.6683 | 0.6392 | 35,079.1968 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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Orange County, Winter

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|---------------------|---------------------|---------------|---------------|---------------------|
| Government (Civic Center) | 8.17168 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1.67628 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7.80463 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237.123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 791.308 | 8.5337 | 77.5792 | 65.1666 | 0.4655 | | 5.8960 | 5.8960 | | 5.8960 | 5.8960 | | 93,095.0654 | 93,095.0654 | 1.7843 | 1.7067 | 93,661.6265 |
| Junior High School | 20.8449 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5.39293 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38.1748 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20.9412 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26.7018 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5.92951 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30.9766 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111.514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9.18863 | 0.0991 | 0.9009 | 0.7567 | 5.4100e-003 | | 0.0685 | 0.0685 | | 0.0685 | 0.0685 | | 1,081.0157 | 1,081.0157 | 0.0207 | 0.0198 | 1,087.5946 |
| Research & Development | 4.84558 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13.8741 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1318.83 | 14.2227 | 121.5391 | 51.7188 | 0.7758 | | 9.8266 | 9.8266 | | 9.8266 | 9.8266 | | 155,156.2969 | 155,156.2969 | 2.9738 | 2.8445 | 156,100.5522 |
| Strip Mall | 31.7043 | 0.3419 | 3.1083 | 2.6109 | 0.0187 | | 0.2362 | 0.2362 | | 0.2362 | 0.2362 | | 3,729.9157 | 3,729.9157 | 0.0715 | 0.0684 | 3,752.6153 |
| Unrefrigerated Warehouse-No | 2.22251 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.5641 | 408.0130 | 243.4061 | 2.5399 | | 32.1715 | 32.1715 | | 32.1715 | 32.1715 | | 507,971.3385 | 507,971.3385 | 9.7361 | 9.3128 | 511,062.7674 |

NewportBeach2006GP
Orange County, Winter

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|---------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |
| Unmitigated | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6871 | 14.9321 | 10.3862 | 443,432.9674 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 635.2510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,833.7141 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,408.6371 | 26.9354 | 2,618.7060 | 0.0000 | | 383.5701 | 383.5701 | | 383.3055 | 383.3055 | 35,221.1059 | 397,003.7647 | 432,224.8706 | 7.6092 | 10.3862 | 435,604.3702 |
| Landscaping | 127.2641 | 48.9793 | 4,246.4372 | 0.2251 | | 23.6221 | 23.6221 | | 23.6221 | 23.6221 | | 7,674.8165 | 7,674.8165 | 7.3229 | | 7,828.5972 |
| Total | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6872 | 14.9321 | 10.3862 | 443,432.9674 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 635.2510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,833.7141 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,408.6371 | 26.9354 | 2,618.7060 | 0.0000 | | 383.5701 | 383.5701 | | 383.3055 | 383.3055 | 35,221.1059 | 397,003.7647 | 432,224.8706 | 7.6092 | 10.3862 | 435,604.3702 |
| Landscaping | 127.2641 | 48.9793 | 4,246.4372 | 0.2251 | | 23.6221 | 23.6221 | | 23.6221 | 23.6221 | | 7,674.8165 | 7,674.8165 | 7.3229 | | 7,828.5972 |
| Total | 6,004.8663 | 75.9148 | 6,865.1432 | 0.2251 | | 407.1922 | 407.1922 | | 406.9275 | 406.9275 | 35,221.1059 | 404,678.5812 | 439,899.6872 | 14.9321 | 10.3862 | 443,432.9674 |

NewportBeach2006GP
Orange County, Winter

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

CalEEMod – Existing (2035 Emission Rates)

NewportBeachExisting2035 Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,529.88 | 1000sqft | 264.69 | 11,529,900.00 | 0 |
| Government (Civic Center) | 298.61 | 1000sqft | 6.86 | 298,614.00 | 0 |
| Government Office Building | 53.70 | 1000sqft | 1.23 | 53,700.00 | 0 |
| Hospital | 1,031.00 | Bed | 16.94 | 737,946.06 | 0 |
| Medical Office Building | 1,496.23 | 1000sqft | 34.35 | 1,496,230.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 83.47 | 1000sqft | 1.92 | 83,469.00 | 0 |
| Elementary School | 5,951.00 | Student | 11.42 | 497,523.66 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 68.16 | 1000sqft | 1.56 | 68,162.00 | 0 |
| Place of Worship | 440.85 | 1000sqft | 10.12 | 440,846.00 | 0 |
| General Light Industry | 1,240.49 | 1000sqft | 28.48 | 1,240,490.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 242.48 | Acre | 242.48 | 10,562,428.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 12.64 | 1000sqft | 0.29 | 12,640.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 85.90 | 1000sqft | 1.97 | 85,900.00 | 0 |
| Hotel | 3,857.00 | Room | 128.57 | 5,600,364.00 | 0 |
| Motel | 134.00 | Room | 6.03 | 262,666.80 | 0 |
| Movie Theater (No Matinee) | 4,469.00 | Seat | 2.31 | 100,552.50 | 0 |
| Quality Restaurant | 95.05 | 1000sqft | 2.18 | 95,050.00 | 0 |
| Apartments Low Rise | 9,567.00 | Dwelling Unit | 597.94 | 9,567,000.00 | 27362 |
| Apartments Mid Rise | 245.00 | Dwelling Unit | 6.45 | 245,000.00 | 701 |
| Condo/Townhouse | 14,637.00 | Dwelling Unit | 914.81 | 14,637,000.00 | 41862 |
| Congregate Care (Assisted Living) | 661.00 | Dwelling Unit | 41.31 | 661,000.00 | 1890 |
| Mobile Home Park | 600.00 | Dwelling Unit | 75.59 | 720,000.00 | 1716 |
| Retirement Community | 200.00 | Dwelling Unit | 40.00 | 200,000.00 | 572 |
| Single Family Housing | 16,007.00 | Dwelling Unit | 5,197.08 | 28,812,600.00 | 45780 |
| Automobile Care Center | 318.64 | 1000sqft | 7.31 | 318,636.00 | 0 |
| Regional Shopping Center | 1,461.85 | 1000sqft | 33.56 | 1,461,850.00 | 0 |
| Strip Mall | 4,058.20 | 1000sqft | 93.16 | 4,058,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | Operational Year | | 2035 | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Existing

Off-road Equipment - Existing

Trips and VMT - Existing

Architectural Coating - Existing

Woodstoves - No Wood Stoves

Area Coating -

Water And Wastewater - treated wastewater and digestion

Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|---------------------------|-----------------------------------|----------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 35,880,707.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 107,642,121.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 37,018,755.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 111,056,265.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 8,131.95 | 2,032.99 |
| tblFireplaces | NumberGas | 208.25 | 52.06 |
| tblFireplaces | NumberGas | 12,441.45 | 3,110.36 |
| tblFireplaces | NumberGas | 561.85 | 0.00 |
| tblFireplaces | NumberGas | 510.00 | 0.00 |
| tblFireplaces | NumberGas | 170.00 | 42.50 |
| tblFireplaces | NumberGas | 13,605.95 | 3,401.49 |
| tblFireplaces | NumberNoFireplace | 956.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 24.50 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,463.70 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 66.10 | 661.00 |
| tblFireplaces | NumberNoFireplace | 60.00 | 600.00 |
| tblFireplaces | NumberNoFireplace | 20.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,600.70 | 12,405.42 |
| tblFireplaces | NumberWood | 478.35 | 119.59 |
| tblFireplaces | NumberWood | 12.25 | 3.06 |
| tblFireplaces | NumberWood | 731.85 | 182.96 |
| tblFireplaces | NumberWood | 33.05 | 0.00 |
| tblFireplaces | NumberWood | 30.00 | 0.00 |
| tblFireplaces | NumberWood | 10.00 | 2.50 |
| tblFireplaces | NumberWood | 800.35 | 200.09 |
| tblLandUse | LandUseSquareFeet | 298,610.00 | 298,614.00 |
| tblLandUse | LandUseSquareFeet | 83,470.00 | 83,469.00 |
| tblLandUse | LandUseSquareFeet | 68,160.00 | 68,162.00 |
| tblLandUse | LandUseSquareFeet | 440,850.00 | 440,846.00 |
| tblLandUse | LandUseSquareFeet | 318,640.00 | 318,636.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |

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| | | | |
|-----------------|--------------------------|-----------|------------|
| tblSolidWaste | SolidWasteGenerationRate | 4,400.82 | 21,353.30 |
| tblSolidWaste | SolidWasteGenerationRate | 112.70 | 546.83 |
| tblSolidWaste | SolidWasteGenerationRate | 1,217.20 | 1,814.31 |
| tblSolidWaste | SolidWasteGenerationRate | 20.85 | 21.82 |
| tblSolidWaste | SolidWasteGenerationRate | 6,733.02 | 32,669.42 |
| tblSolidWaste | SolidWasteGenerationRate | 603.16 | 1,475.34 |
| tblSolidWaste | SolidWasteGenerationRate | 108.51 | 106.63 |
| tblSolidWaste | SolidWasteGenerationRate | 1,086.06 | 1,086.06 |
| tblSolidWaste | SolidWasteGenerationRate | 145.60 | 11.53 |
| tblSolidWaste | SolidWasteGenerationRate | 1,538.21 | 3,214.73 |
| tblSolidWaste | SolidWasteGenerationRate | 10,722.81 | 176,753.03 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,702.08 | 381.48 |
| tblSolidWaste | SolidWasteGenerationRate | 49.94 | 823.22 |
| tblSolidWaste | SolidWasteGenerationRate | 489.63 | 109.74 |
| tblSolidWaste | SolidWasteGenerationRate | 3,010.52 | 11,312.71 |
| tblSolidWaste | SolidWasteGenerationRate | 2,111.71 | 2,815.61 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 62.77 | 87.08 |
| tblSolidWaste | SolidWasteGenerationRate | 16,159.28 | 22,937.25 |
| tblSolidWaste | SolidWasteGenerationRate | 276.00 | 1,339.19 |
| tblSolidWaste | SolidWasteGenerationRate | 73.36 | 97.82 |
| tblSolidWaste | SolidWasteGenerationRate | 2,512.85 | 563.18 |
| tblSolidWaste | SolidWasteGenerationRate | 86.73 | 86.73 |
| tblSolidWaste | SolidWasteGenerationRate | 1,534.94 | 8,323.75 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 92.00 | 446.40 |
| tblSolidWaste | SolidWasteGenerationRate | 18,769.80 | 35,727.22 |
| tblSolidWaste | SolidWasteGenerationRate | 4,261.11 | 23,107.39 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 10,511.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |

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| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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| | | | |
|----------|-------------------------------------|----------------|--------|
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
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| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | .nt. | 2.21 | 0.00 |
| tblWater | IndoorWaterUseRate | 623,328,563.12 | 0.00 |
| tblWater | IndoorWaterUseRate | 15,962,736.28 | 0.00 |

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| | | | |
|----------|---------------------|------------------|------------------|
| tblWater | IndoorWaterUseRate | 29,978,004.08 | 0.00 |
| tblWater | IndoorWaterUseRate | 953,659,473.02 | 0.00 |
| tblWater | IndoorWaterUseRate | 43,066,810.94 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,579,992.20 | 0.00 |
| tblWater | IndoorWaterUseRate | 14,426,652.24 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,836,666.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 286,863,312.50 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,049,252,340.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 59,321,768.80 | 0.00 |
| tblWater | IndoorWaterUseRate | 10,668,025.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 5,080,396.07 | 0.00 |
| tblWater | IndoorWaterUseRate | 92,597,868.38 | 0.00 |
| tblWater | IndoorWaterUseRate | 97,839,631.89 | 0.00 |
| tblWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,132,651.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 187,747,744.71 | 0.00 |
| tblWater | IndoorWaterUseRate | 39,092,415.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,399,147.18 | 0.00 |
| tblWater | IndoorWaterUseRate | 40,382,030.98 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,793,715.26 | 0.00 |
| tblWater | IndoorWaterUseRate | 28,850,879.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 108,282,915.53 | 2,255,436,026.70 |
| tblWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,030,805.12 | 0.00 |
| tblWater | IndoorWaterUseRate | 1,042,920,488.12 | 3,425,934,096.88 |
| tblWater | IndoorWaterUseRate | 300,601,106.69 | 0.00 |
| tblWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tblWater | OutdoorWaterUseRate | 392,968,007.18 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,063,464.17 | 0.00 |
| tblWater | OutdoorWaterUseRate | 18,373,615.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 288,910,397.67 | 837,857,788.32 |
| tblWater | OutdoorWaterUseRate | 601,220,102.56 | 0.00 |
| tblWater | OutdoorWaterUseRate | 27,150,815.59 | 0.00 |
| tblWater | OutdoorWaterUseRate | 9,205,694.23 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,097,105.76 | 0.00 |
| tblWater | OutdoorWaterUseRate | 244,893.58 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,255,993,370.28 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 36,358,503.46 | 0.00 |
| tblWater | OutdoorWaterUseRate | 6,538,467.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,113,791.14 | 0.00 |
| tblWater | OutdoorWaterUseRate | 17,637,689.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,871,070.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,335,686.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 35,761,475.18 | 0.00 |
| tblWater | OutdoorWaterUseRate | 24,645,218.39 | 0.00 |

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| | | | |
|---------------|---------------------|----------------|----------------|
| tblWater | OutdoorWaterUseRate | 377,683.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,577,576.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 21,574,785.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,841,545.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 66,366,948.23 | 563,859,006.68 |
| tblWater | OutdoorWaterUseRate | 8,215,072.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 657,493,351.21 | 856,483,524.22 |
| tblWater | OutdoorWaterUseRate | 184,239,387.97 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
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| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 478.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberCatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberCatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 10.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 800.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 478.35 | 0.00 |

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| | | | |
|---------------|--------------------|--------|------|
| tblWoodstoves | NumberNoncatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 10.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 800.35 | 0.00 |

2.0 Emissions Summary

**2.2 Overall Operational
Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |
| Energy | 7.5427 | 65.9684 | 38.5181 | 0.4114 | | 5.2114 | 5.2114 | | 5.2114 | 5.2114 | 0.0000 | 253,798.0829 | 253,798.0829 | 9.6657 | 3.0723 | 254,953.4837 |
| Mobile | 243.1135 | 474.6888 | 2,444.4412 | 11.4148 | 801.5562 | 12.6422 | 814.1983 | 214.3494 | 11.6781 | 226.0275 | 0.0000 | 723,304.5079 | 723,304.5079 | 20.0185 | 0.0000 | 723,724.8963 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 71,045.0701 | 0.0000 | 71,045.0701 | 4,198.6434 | 0.0000 | 159,216.5807 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2,010.0777 | 28,349.3307 | 30,359.4084 | 8.2216 | 4.6409 | 31,970.7333 |
| Total | 855.5333 | 545.9685 | 2,946.9836 | 11.8491 | 801.5562 | 24.8778 | 826.4340 | 214.3494 | 23.9122 | 238.2616 | 73,454.5484 | 1,008,233.7481 | 1,081,688.2965 | 4,237.2639 | 7.7865 | 1,173,084.6456 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |
| Energy | 7.5427 | 65.9684 | 38.5181 | 0.4114 | | 5.2114 | 5.2114 | | 5.2114 | 5.2114 | 0.0000 | 253,798.0829 | 253,798.0829 | 9.6657 | 3.0723 | 254,953.4837 |
| Mobile | 243.1135 | 474.6888 | 2,444.4412 | 11.4148 | 801.5562 | 12.6422 | 814.1983 | 214.3494 | 11.6781 | 226.0275 | 0.0000 | 723,304.5079 | 723,304.5079 | 20.0185 | 0.0000 | 723,724.8963 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 71,045.0701 | 0.0000 | 71,045.0701 | 4,198.6434 | 0.0000 | 159,216.5807 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2,010.0777 | 28,349.3307 | 30,359.4084 | 8.1839 | 4.6331 | 31,967.5265 |
| Total | 855.5333 | 545.9685 | 2,946.9836 | 11.8491 | 801.5562 | 24.8778 | 826.4340 | 214.3494 | 23.9122 | 238.2616 | 73,454.5484 | 1,008,233.7481 | 1,081,688.2965 | 4,237.2262 | 7.7787 | 1,173,081.4389 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 |

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|----------|------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|---------|--------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 243.1135 | 474.6888 | 2,444.4412 | 11.4148 | 801.5562 | 12.6422 | 814.1983 | 214.3494 | 11.6781 | 226.0275 | 0.0000 | 723,304.5079 | 723,304.5079 | 20.0185 | 0.0000 | 723,724.8963 |
| Unmitigated | 243.1135 | 474.6888 | 2,444.4412 | 11.4148 | 801.5562 | 12.6422 | 814.1983 | 214.3494 | 11.6781 | 226.0275 | 0.0000 | 723,304.5079 | 723,304.5079 | 20.0185 | 0.0000 | 723,724.8963 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 63,046.53 | 68,499.72 | 58071.69 | 197,233,040 | 197,233,040 |
| Apartments Mid Rise | 1,614.55 | 1,754.20 | 1487.15 | 5,050,914 | 5,050,914 |
| Automobile Care Center | 19,755.68 | 19,755.68 | 19755.68 | 23,670,298 | 23,670,298 |
| City Park | 385.54 | 385.54 | 385.54 | 991,500 | 991,500 |
| Condo/Townhouse | 96,457.83 | 104,800.92 | 88846.59 | 301,756,037 | 301,756,037 |
| Congregate Care (Assisted Living) | 1,811.14 | 1,454.20 | 1612.84 | 5,411,912 | 5,411,912 |
| Day-Care Center | 6,615.83 | 518.35 | 486.63 | 7,308,833 | 7,308,833 |
| Elementary School | 7,676.79 | 0.00 | 0.00 | 13,389,884 | 13,389,884 |
| Fast Food Restaurant w/o Drive Thru | 9,050.24 | 8,797.44 | 6320.00 | 18,327,020 | 18,327,020 |
| General Light Industry | 8,646.22 | 1,637.45 | 843.53 | 21,441,437 | 21,441,437 |
| General Office Building | 126,943.98 | 27,325.82 | 11299.28 | 276,933,126 | 276,933,126 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,394,086 | 8,394,086 |
| Government (Civic Center) | 8,337.19 | 0.00 | 0.00 | 12,297,082 | 12,297,082 |
| Government Office Building | 3,701.54 | 0.00 | 0.00 | 5,459,651 | 5,459,651 |
| Health Club | 2,828.69 | 1,792.73 | 2296.11 | 5,669,722 | 5,669,722 |
| Hospital | 12,176.11 | 8,392.34 | 7412.89 | 30,567,312 | 30,567,312 |
| Hotel | 31,511.69 | 31,588.83 | 22949.15 | 72,033,250 | 72,033,250 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,735,554 | 14,735,554 |
| Library | 3,833.32 | 3,172.85 | 1737.40 | 6,673,763 | 6,673,763 |
| Medical Office Building | 54,058.79 | 13,406.22 | 2319.16 | 97,228,552 | 97,228,552 |
| Mobile Home Park | 2,994.00 | 3,000.00 | 2616.00 | 9,190,136 | 9,190,136 |
| Motel | 754.42 | 754.42 | 754.42 | 1,793,539 | 1,793,539 |
| Movie Theater (No Matinee) | 8,044.20 | 8,044.20 | 8044.20 | 19,940,797 | 19,940,797 |
| Place of Worship | 4,016.14 | 4,571.61 | 16148.34 | 14,435,974 | 14,435,974 |
| Quality Restaurant | 8,549.75 | 8,968.92 | 6858.81 | 12,652,223 | 12,652,223 |
| Regional Shopping Center | 62,771.84 | 73,048.64 | 36897.09 | 133,966,477 | 133,966,477 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,535,644 | 1,535,644 |
| Retirement Community | 562.00 | 562.00 | 562.00 | 1,756,242 | 1,756,242 |
| Single Family Housing | 153,186.99 | 161,350.56 | 140381.39 | 476,634,797 | 476,634,797 |
| Strip Mall | 179,859.42 | 170,606.73 | 82909.03 | 319,723,428 | 319,723,428 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,670,347 | 1,670,347 |
| Total | 892,497.14 | 729,110.83 | 525,895.70 | 2,117,872,577 | 2,117,872,577 |

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4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.67 | 9.67 | 9.67 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.67 | 9.67 | 9.67 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.67 | 9.67 | 9.67 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.67 | 9.67 | 9.67 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.67 | 9.67 | 9.67 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.67 | 9.67 | 9.67 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.67 | 9.67 | 9.67 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.67 | 9.67 | 9.67 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.67 | 9.67 | 9.67 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.67 | 9.67 | 9.67 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.67 | 9.67 | 9.67 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.67 | 9.67 | 9.67 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.67 | 9.67 | 9.67 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.67 | 9.67 | 9.67 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.67 | 9.67 | 9.67 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.67 | 9.67 | 9.67 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.67 | 9.67 | 9.67 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.67 | 9.67 | 9.67 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 179,150.8919 | 179,150.8919 | 8.2350 | 1.7038 | 179,852.0024 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 179,150.8919 | 179,150.8919 | 8.2350 | 1.7038 | 179,852.0024 |
| NaturalGas Mitigated | 7.5427 | 65.9684 | 38.5181 | 0.4114 | | 5.2114 | 5.2114 | | 5.2114 | 5.2114 | 0.0000 | 74,647.1910 | 74,647.1910 | 1.4307 | 1.3685 | 75,101.4814 |
| NaturalGas Unmitigated | 7.5427 | 65.9684 | 38.5181 | 0.4114 | | 5.2114 | 5.2114 | | 5.2114 | 5.2114 | 0.0000 | 74,647.1910 | 74,647.1910 | 1.4307 | 1.3685 | 75,101.4814 |

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5.2 Energy by Land Use - NaturalGas Unmitigated

| Land Use | NaturalGas Use kBTU/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------------|-------------|---------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 2.23858e+006 | 0.0121 | 0.1032 | 0.0439 | 6.6000e-004 | | 8.3400e-003 | 8.3400e-003 | | 8.3400e-003 | 8.3400e-003 | 0.0000 | 119.4590 | 119.4590 | 2.2900e-003 | 2.1900e-003 | 120.1860 |
| Automobile Care Center | 7.04186e+006 | 0.0380 | 0.3452 | 0.2900 | 2.0700e-003 | | 0.0262 | 0.0262 | | 0.0262 | 0.0262 | 0.0000 | 375.7802 | 375.7802 | 7.2000e-003 | 6.8900e-003 | 378.0672 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.45817e+008 | 1.3255 | 11.3269 | 4.8199 | 0.0723 | | 0.9158 | 0.9158 | | 0.9158 | 0.9158 | 0.0000 | 13,117.7155 | 13,117.7155 | 0.2514 | 0.2405 | 13,197.5478 |
| Congregate Care (Assisted Living) | 6.03959e+006 | 0.0326 | 0.2783 | 0.1184 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | 0.0000 | 322.2955 | 322.2955 | 6.1800e-003 | 5.9100e-003 | 324.2570 |
| Day-Care Center | 1.11848e+006 | 6.0300e-003 | 0.0548 | 0.0461 | 3.3000e-004 | | 4.1700e-003 | 4.1700e-003 | | 4.1700e-003 | 4.1700e-003 | 0.0000 | 59.6866 | 59.6866 | 1.1400e-003 | 1.0900e-003 | 60.0498 |
| Elementary School | 6.66682e+006 | 0.0360 | 0.3268 | 0.2745 | 1.9600e-003 | | 0.0248 | 0.0248 | | 0.0248 | 0.0248 | 0.0000 | 355.7668 | 355.7668 | 6.8200e-003 | 6.5200e-003 | 357.9319 |
| Fast Food Restaurant w/o Drive Thru | 3.34277e+006 | 0.0180 | 0.1639 | 0.1376 | 9.8000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | 0.0000 | 178.3832 | 178.3832 | 3.4200e-003 | 3.2700e-003 | 179.4688 |
| Apartments Low Rise | 1.11528e+008 | 0.6014 | 5.1390 | 2.1868 | 0.0328 | | 0.4155 | 0.4155 | | 0.4155 | 0.4155 | 0.0000 | 5,951.5369 | 5,951.5369 | 0.1141 | 0.1091 | 5,987.7570 |
| General Light Industry | 2.74148e+007 | 0.1478 | 1.3439 | 1.1289 | 8.0600e-003 | | 0.1021 | 0.1021 | | 0.1021 | 0.1021 | 0.0000 | 1,462.9597 | 1,462.9597 | 0.0280 | 0.0268 | 1,471.8630 |
| General Office Building | 1.24869e+008 | 0.6733 | 6.1210 | 5.1417 | 0.0367 | | 0.4652 | 0.4652 | | 0.4652 | 0.4652 | 0.0000 | 6,663.4756 | 6,663.4756 | 0.1277 | 0.1222 | 6,704.0284 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 3.23399e+006 | 0.0174 | 0.1585 | 0.1332 | 9.5000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 172.5780 | 172.5780 | 3.3100e-003 | 3.1600e-003 | 173.6283 |
| Government Office Building | 581571 | 3.1400e-003 | 0.0285 | 0.0240 | 1.7000e-004 | | 2.1700e-003 | 2.1700e-003 | | 2.1700e-003 | 2.1700e-003 | 0.0000 | 31.0348 | 31.0348 | 5.9000e-004 | 5.7000e-004 | 31.2237 |
| Health Club | 1.89839e+006 | 0.0102 | 0.0931 | 0.0782 | 5.6000e-004 | | 7.0700e-003 | 7.0700e-003 | | 7.0700e-003 | 7.0700e-003 | 0.0000 | 101.3053 | 101.3053 | 1.9400e-003 | 1.8600e-003 | 101.9219 |
| Hospital | 4.80846e+007 | 0.2593 | 2.3571 | 1.9800 | 0.0141 | | 0.1791 | 0.1791 | | 0.1791 | 0.1791 | 0.0000 | 2,565.9755 | 2,565.9755 | 0.0492 | 0.0470 | 2,581.5916 |
| Hotel | 2.02957e+008 | 1.0944 | 9.9489 | 8.3571 | 0.0597 | | 0.7561 | 0.7561 | | 0.7561 | 0.7561 | 0.0000 | 10,830.5686 | 10,830.5686 | 0.2076 | 0.1986 | 10,896.4817 |
| Junior High School | 8.21533e+006 | 0.0443 | 0.4027 | 0.3383 | 2.4200e-003 | | 0.0306 | 0.0306 | | 0.0306 | 0.0306 | 0.0000 | 438.4012 | 438.4012 | 8.4000e-003 | 8.0400e-003 | 441.0692 |
| Library | 1.50638e+006 | 8.1200e-003 | 0.0738 | 0.0620 | 4.4000e-004 | | 5.6100e-003 | 5.6100e-003 | | 5.6100e-003 | 5.6100e-003 | 0.0000 | 80.3862 | 80.3862 | 1.5400e-003 | 1.4700e-003 | 80.8754 |
| Medical Office Building | 1.62042e+007 | 0.0874 | 0.7943 | 0.6672 | 4.7700e-003 | | 0.0604 | 0.0604 | | 0.0604 | 0.0604 | 0.0000 | 864.7163 | 864.7163 | 0.0166 | 0.0159 | 869.9788 |
| Mobile Home Park | 1.23265e+007 | 0.0665 | 0.5680 | 0.2417 | 3.6300e-003 | | 0.0459 | 0.0459 | | 0.0459 | 0.0459 | 0.0000 | 657.7878 | 657.7878 | 0.0126 | 0.0121 | 661.7910 |
| Motel | 9.51904e+006 | 0.0513 | 0.4666 | 0.3920 | 2.8000e-003 | | 0.0355 | 0.0355 | | 0.0355 | 0.0355 | 0.0000 | 507.9725 | 507.9725 | 9.7400e-003 | 9.3100e-003 | 511.0639 |
| Movie Theater (No Matinee) | 2.22221e+006 | 0.0120 | 0.1089 | 0.0915 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | 0.0000 | 118.5856 | 118.5856 | 2.2700e-003 | 2.1700e-003 | 119.3073 |
| Place of Worship | 9.7427e+006 | 0.0525 | 0.4776 | 0.4012 | 2.8700e-003 | | 0.0363 | 0.0363 | | 0.0363 | 0.0363 | 0.0000 | 519.9074 | 519.9074 | 9.9600e-003 | 9.5300e-003 | 523.0715 |
| Quality Restaurant | 2.51369e+007 | 0.1355 | 1.2322 | 1.0351 | 7.3900e-003 | | 0.0937 | 0.0937 | | 0.0937 | 0.0937 | 0.0000 | 1,341.4019 | 1,341.4019 | 0.0257 | 0.0246 | 1,349.5655 |
| Regional Shopping Center | 3.0845e+006 | 0.0166 | 0.1512 | 0.1270 | 9.1000e-004 | | 0.0115 | 0.0115 | | 0.0115 | 0.0115 | 0.0000 | 164.6009 | 164.6009 | 3.1500e-003 | 3.0200e-003 | 165.6026 |
| Research & Development | 1.80623e+006 | 9.7400e-003 | 0.0885 | 0.0744 | 5.3000e-004 | | 6.7300e-003 | 6.7300e-003 | | 6.7300e-003 | 6.7300e-003 | 0.0000 | 96.3875 | 96.3875 | 1.8500e-003 | 1.7700e-003 | 96.9741 |
| Retirement Community | 3.35884e+006 | 0.0181 | 0.1548 | 0.0659 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | 0.0000 | 179.2405 | 179.2405 | 3.4400e-003 | 3.2900e-003 | 180.3313 |
| Single Family Housing | 5.0336e+008 | 2.7142 | 23.1940 | 9.8698 | 0.1481 | | 1.8753 | 1.8753 | | 1.8753 | 1.8753 | 0.0000 | 26,861.1875 | 26,861.1875 | 0.5148 | 0.4925 | 27,024.6602 |

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| | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Strip Mall | 8.5628e+006 | 0.0462 | 0.4198 | 0.3526 | 2.5200e-003 | | 0.0319 | 0.0319 | | 0.0319 | 0.0319 | 0.0000 | 456.9437 | 456.9437 | 8.7600e-003 | 8.3800e-003 | 459.7246 |
| Unrefrigerated Warehouse-No | 958530 | 5.1700e-003 | 0.0470 | 0.0395 | 2.8000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.5700e-003 | 3.5700e-003 | 0.0000 | 51.1508 | 51.1508 | 9.8000e-004 | 9.4000e-004 | 51.4621 |
| Total | | 7.5427 | 65.9684 | 38.5181 | 0.4114 | | 5.2114 | 5.2114 | | 5.2114 | 5.2114 | 0.0000 | 74,647.1910 | 74,647.1910 | 1.4307 | 1.3685 | 75,101.4814 |

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-------------|---------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 2.23858e+006 | 0.0121 | 0.1032 | 0.0439 | 6.6000e-004 | | 8.3400e-003 | 8.3400e-003 | | 8.3400e-003 | 8.3400e-003 | 0.0000 | 119.4590 | 119.4590 | 2.2900e-003 | 2.1900e-003 | 120.1860 |
| Automobile Care Center | 7.04186e+006 | 0.0380 | 0.3452 | 0.2900 | 2.0700e-003 | | 0.0262 | 0.0262 | | 0.0262 | 0.0262 | 0.0000 | 375.7802 | 375.7802 | 7.2000e-003 | 6.8900e-003 | 378.0672 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.45817e+008 | 1.3255 | 11.3269 | 4.8199 | 0.0723 | | 0.9158 | 0.9158 | | 0.9158 | 0.9158 | 0.0000 | 13,117.7155 | 13,117.7155 | 0.2514 | 0.2405 | 13,197.5478 |
| Congregate Care (Assisted Living) | 6.03959e+006 | 0.0326 | 0.2783 | 0.1184 | 1.7800e-003 | | 0.0225 | 0.0225 | | 0.0225 | 0.0225 | 0.0000 | 322.2955 | 322.2955 | 6.1800e-003 | 5.9100e-003 | 324.2570 |
| Day-Care Center | 1.11848e+006 | 6.0300e-003 | 0.0548 | 0.0461 | 3.3000e-004 | | 4.1700e-003 | 4.1700e-003 | | 4.1700e-003 | 4.1700e-003 | 0.0000 | 59.6866 | 59.6866 | 1.1400e-003 | 1.0900e-003 | 60.0498 |
| Elementary School | 6.66682e+006 | 0.0360 | 0.3268 | 0.2745 | 1.9600e-003 | | 0.0248 | 0.0248 | | 0.0248 | 0.0248 | 0.0000 | 355.7668 | 355.7668 | 6.8200e-003 | 6.5200e-003 | 357.9319 |
| Fast Food Restaurant w/o Drive Thru | 3.34277e+006 | 0.0180 | 0.1639 | 0.1376 | 9.8000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | 0.0000 | 178.3832 | 178.3832 | 3.4200e-003 | 3.2700e-003 | 179.4688 |
| General Light Industry | 2.74148e+007 | 0.1478 | 1.3439 | 1.1289 | 8.0600e-003 | | 0.1021 | 0.1021 | | 0.1021 | 0.1021 | 0.0000 | 1,462.9597 | 1,462.9597 | 0.0280 | 0.0268 | 1,471.8630 |
| Apartments Low Rise | 1.11528e+008 | 0.6014 | 5.1390 | 2.1868 | 0.0328 | | 0.4155 | 0.4155 | | 0.4155 | 0.4155 | 0.0000 | 5,951.5369 | 5,951.5369 | 0.1141 | 0.1091 | 5,987.7570 |
| General Office Building | 1.24869e+008 | 0.6733 | 6.1210 | 5.1417 | 0.0367 | | 0.4652 | 0.4652 | | 0.4652 | 0.4652 | 0.0000 | 6,663.4756 | 6,663.4756 | 0.1277 | 0.1222 | 6,704.0284 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 3.23399e+006 | 0.0174 | 0.1585 | 0.1332 | 9.5000e-004 | | 0.0121 | 0.0121 | | 0.0121 | 0.0121 | 0.0000 | 172.5780 | 172.5780 | 3.3100e-003 | 3.1600e-003 | 173.6283 |
| Government Office Building | 581571 | 3.1400e-003 | 0.0285 | 0.0240 | 1.7000e-004 | | 2.1700e-003 | 2.1700e-003 | | 2.1700e-003 | 2.1700e-003 | 0.0000 | 31.0348 | 31.0348 | 5.9000e-004 | 5.7000e-004 | 31.2237 |
| Health Club | 1.89839e+006 | 0.0102 | 0.0931 | 0.0782 | 5.6000e-004 | | 7.0700e-003 | 7.0700e-003 | | 7.0700e-003 | 7.0700e-003 | 0.0000 | 101.3053 | 101.3053 | 1.9400e-003 | 1.8600e-003 | 101.9219 |
| Hospital | 4.80846e+007 | 0.2593 | 2.3571 | 1.9800 | 0.0141 | | 0.1791 | 0.1791 | | 0.1791 | 0.1791 | 0.0000 | 2,565.9755 | 2,565.9755 | 0.0492 | 0.0470 | 2,581.5916 |
| Hotel | 2.02957e+008 | 1.0944 | 9.9489 | 8.3571 | 0.0597 | | 0.7561 | 0.7561 | | 0.7561 | 0.7561 | 0.0000 | 10,830.5686 | 10,830.5686 | 0.2076 | 0.1986 | 10,896.4817 |
| Junior High School | 8.21533e+006 | 0.0443 | 0.4027 | 0.3383 | 2.4200e-003 | | 0.0306 | 0.0306 | | 0.0306 | 0.0306 | 0.0000 | 438.4012 | 438.4012 | 8.4000e-003 | 8.0400e-003 | 441.0692 |
| Library | 1.50638e+006 | 8.1200e-003 | 0.0738 | 0.0620 | 4.4000e-004 | | 5.6100e-003 | 5.6100e-003 | | 5.6100e-003 | 5.6100e-003 | 0.0000 | 80.3862 | 80.3862 | 1.5400e-003 | 1.4700e-003 | 80.8754 |
| Medical Office Building | 1.62042e+007 | 0.0874 | 0.7943 | 0.6672 | 4.7700e-003 | | 0.0604 | 0.0604 | | 0.0604 | 0.0604 | 0.0000 | 864.7163 | 864.7163 | 0.0166 | 0.0159 | 869.9788 |
| Mobile Home Park | 1.23265e+007 | 0.0665 | 0.5680 | 0.2417 | 3.6300e-003 | | 0.0459 | 0.0459 | | 0.0459 | 0.0459 | 0.0000 | 657.7878 | 657.7878 | 0.0126 | 0.0121 | 661.7910 |
| Motel | 9.51904e+006 | 0.0513 | 0.4666 | 0.3920 | 2.8000e-003 | | 0.0355 | 0.0355 | | 0.0355 | 0.0355 | 0.0000 | 507.9725 | 507.9725 | 9.7400e-003 | 9.3100e-003 | 511.0639 |
| Movie Theater (No Matinee) | 2.22221e+006 | 0.0120 | 0.1089 | 0.0915 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | 0.0000 | 118.5856 | 118.5856 | 2.2700e-003 | 2.1700e-003 | 119.3073 |
| Place of Worship | 9.7427e+006 | 0.0525 | 0.4776 | 0.4012 | 2.8700e-003 | | 0.0363 | 0.0363 | | 0.0363 | 0.0363 | 0.0000 | 519.9074 | 519.9074 | 9.9600e-003 | 9.5300e-003 | 523.0715 |
| Quality Restaurant | 2.51369e+007 | 0.1355 | 1.2322 | 1.0351 | 7.3900e-003 | | 0.0937 | 0.0937 | | 0.0937 | 0.0937 | 0.0000 | 1,341.4019 | 1,341.4019 | 0.0257 | 0.0246 | 1,349.5655 |
| Regional Shopping Center | 3.0845e+006 | 0.0166 | 0.1512 | 0.1270 | 9.1000e-004 | | 0.0115 | 0.0115 | | 0.0115 | 0.0115 | 0.0000 | 164.6009 | 164.6009 | 3.1500e-003 | 3.0200e-003 | 165.6026 |

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| | | | | | | | | | | | | | | | |
|-----------------------------|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Research & Development | 1.80623e+006 | 9.7400e-003 | 0.0885 | 0.0744 | 5.3000e-004 | 6.7300e-003 | 6.7300e-003 | 6.7300e-003 | 6.7300e-003 | 0.0000 | 96.3875 | 96.3875 | 1.8500e-003 | 1.7700e-003 | 96.9741 |
| Retirement Community | 3.35884e+006 | 0.0181 | 0.1548 | 0.0659 | 9.9000e-004 | 0.0125 | 0.0125 | 0.0125 | 0.0125 | 0.0000 | 179.2405 | 179.2405 | 3.4400e-003 | 3.2900e-003 | 180.3313 |
| Single Family Housing | 5.0336e+008 | 2.7142 | 23.1940 | 9.8698 | 0.1481 | 1.8753 | 1.8753 | 1.8753 | 1.8753 | 0.0000 | 26,861.1875 | 26,861.1875 | 0.5148 | 0.4925 | 27,024.6602 |
| Strip Mall | 8.5628e+006 | 0.0462 | 0.4198 | 0.3526 | 2.5200e-003 | 0.0319 | 0.0319 | 0.0319 | 0.0319 | 0.0000 | 456.9437 | 456.9437 | 8.7600e-003 | 8.3800e-003 | 459.7246 |
| Unrefrigerated Warehouse-No | 958530 | 5.1700e-003 | 0.0470 | 0.0395 | 2.8000e-004 | 3.5700e-003 | 3.5700e-003 | 3.5700e-003 | 3.5700e-003 | 0.0000 | 51.1508 | 51.1508 | 9.8000e-004 | 9.4000e-004 | 51.4621 |
| Total | | 7.5427 | 65.9684 | 38.5181 | 0.4114 | 5.2114 | 5.2114 | 5.2114 | 5.2114 | 0.0000 | 74,647.1910 | 74,647.1910 | 1.4307 | 1.3685 | 75,101.4814 |

5.3 Energy by Land Use - Electricity
Unmitigated

| Land Use | Electricity Use kWh/yr | Total CO2 MT/yr | CH4 MT/yr | N2O MT/yr | CO2e MT/yr |
|-------------------------------------|---------------------------|--------------------|--------------|--------------|---------------|
| Apartments Low Rise | 3.48221e+007 | 9,964.9213 | 0.4581 | 0.0948 | 10,003.9192 |
| Apartments Mid Rise | 863245 | 247.0322 | 0.0114 | 2.3500e-003 | 247.9990 |
| Automobile Care Center | 3.07484e+006 | 879.9167 | 0.0405 | 8.3700e-003 | 883.3602 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 6.40077e+007 | 18,316.8980 | 0.8420 | 0.1742 | 18,388.5816 |
| Congregate Care (Assisted Living) | 2.329e+006 | 666.4828 | 0.0306 | 6.3400e-003 | 669.0911 |
| Day-Care Center | 606820 | 173.6517 | 7.9800e-003 | 1.6500e-003 | 174.3313 |
| Elementary School | 3.617e+006 | 1,035.0648 | 0.0476 | 9.8400e-003 | 1,039.1155 |
| Fast Food Restaurant w/o Drive Thru | 512931 | 146.7839 | 6.7500e-003 | 1.4000e-003 | 147.3584 |
| General Light Industry | 1.19707e+007 | 3,425.6262 | 0.1575 | 0.0326 | 3,439.0324 |
| General Office Building | 1.8886e+008 | 54,045.4108 | 2.4843 | 0.5140 | 54,256.9185 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8913e+006 | 1,399.7273 | 0.0643 | 0.0133 | 1,405.2052 |
| Government Office Building | 879606 | 251.7141 | 0.0116 | 2.3900e-003 | 252.6992 |
| Health Club | 828935 | 237.2138 | 0.0109 | 2.2600e-003 | 238.1421 |
| Hospital | 1.28181e+007 | 3,668.1224 | 0.1686 | 0.0349 | 3,682.4777 |
| Hotel | 5.93079e+007 | 16,971.9444 | 0.7802 | 0.1614 | 17,038.3644 |
| Junior High School | 4.45712e+006 | 1,275.4807 | 0.0586 | 0.0121 | 1,280.4724 |
| Library | 657763 | 188.2301 | 8.6500e-003 | 1.7900e-003 | 188.9667 |
| Medical Office Building | 2.45082e+007 | 7,013.4490 | 0.3224 | 0.0667 | 7,040.8962 |
| Mobile Home Park | 3.06562e+006 | 877.2778 | 0.0403 | 8.3400e-003 | 880.7110 |
| Motel | 2.78164e+006 | 796.0137 | 0.0366 | 7.5700e-003 | 799.1289 |
| Movie Theater (No Matinee) | 970332 | 277.6768 | 0.0128 | 2.6400e-003 | 278.7635 |

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|-----------------------------|--------------|---------------------|---------------|---------------|---------------------|
| Place of Worship | 4.25416e+006 | 1,217.4009 | 0.0560 | 0.0116 | 1,222.1652 |
| Quality Restaurant | 3.85713e+006 | 1,103.7826 | 0.0507 | 0.0105 | 1,108.1023 |
| Regional Shopping Center | 1.96473e+007 | 5,622.3964 | 0.2584 | 0.0535 | 5,644.3998 |
| Research & Development | 788695 | 225.6983 | 0.0104 | 2.1500e-003 | 226.5815 |
| Retirement Community | 874602 | 250.2821 | 0.0115 | 2.3800e-003 | 251.2616 |
| Single Family Housing | 1.15322e+008 | 33,001.4616 | 1.5170 | 0.3139 | 33,130.6135 |
| Strip Mall | 5.45422e+007 | 15,608.1741 | 0.7175 | 0.1484 | 15,669.2569 |
| Unrefrigerated Warehouse-No | 919246 | 263.0577 | 0.0121 | 2.5000e-003 | 264.0871 |
| Total | | 179,150.8919 | 8.2350 | 1.7038 | 179,852.0024 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 3.48221e+007 | 9,964.9213 | 0.4581 | 0.0948 | 10,003.9192 |
| Apartments Mid Rise | 863245 | 247.0322 | 0.0114 | 2.3500e-003 | 247.9990 |
| Automobile Care Center | 3.07484e+006 | 879.9167 | 0.0405 | 8.3700e-003 | 883.3602 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 6.40077e+007 | 18,316.8980 | 0.8420 | 0.1742 | 18,388.5816 |
| Congregate Care (Assisted Living) | 2.329e+006 | 666.4828 | 0.0306 | 6.3400e-003 | 669.0911 |
| Day-Care Center | 606820 | 173.6517 | 7.9800e-003 | 1.6500e-003 | 174.3313 |
| Elementary School | 3.617e+006 | 1,035.0648 | 0.0476 | 9.8400e-003 | 1,039.1155 |
| Fast Food Restaurant w/o Drive Thru | 512931 | 146.7839 | 6.7500e-003 | 1.4000e-003 | 147.3584 |
| General Light Industry | 1.19707e+007 | 3,425.6262 | 0.1575 | 0.0326 | 3,439.0324 |
| General Office Building | 1.8886e+008 | 54,045.4108 | 2.4843 | 0.5140 | 54,256.9185 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8913e+006 | 1,399.7273 | 0.0643 | 0.0133 | 1,405.2052 |
| Government Office Building | 879606 | 251.7141 | 0.0116 | 2.3900e-003 | 252.6992 |
| Health Club | 828935 | 237.2138 | 0.0109 | 2.2600e-003 | 238.1421 |
| Hospital | 1.28181e+007 | 3,668.1224 | 0.1686 | 0.0349 | 3,682.4777 |
| Hotel | 5.93079e+007 | 16,971.9444 | 0.7802 | 0.1614 | 17,038.3644 |
| Junior High School | 4.45712e+006 | 1,275.4807 | 0.0586 | 0.0121 | 1,280.4724 |
| Library | 657763 | 188.2301 | 8.6500e-003 | 1.7900e-003 | 188.9667 |
| Medical Office Building | 2.45082e+007 | 7,013.4490 | 0.3224 | 0.0667 | 7,040.8962 |

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|-----------------------------|--------------|---------------------|---------------|---------------|---------------------|
| Mobile Home Park | 3.06562e+006 | 877.2778 | 0.0403 | 8.3400e-003 | 880.7110 |
| Motel | 2.78164e+006 | 796.0137 | 0.0366 | 7.5700e-003 | 799.1289 |
| Movie Theater (No Matinee) | 970332 | 277.6768 | 0.0128 | 2.6400e-003 | 278.7635 |
| Place of Worship | 4.25416e+006 | 1,217.4009 | 0.0560 | 0.0116 | 1,222.1652 |
| Quality Restaurant | 3.85713e+006 | 1,103.7826 | 0.0507 | 0.0105 | 1,108.1023 |
| Regional Shopping Center | 1.96473e+007 | 5,622.3964 | 0.2584 | 0.0535 | 5,644.3998 |
| Research & Development | 788695 | 225.6983 | 0.0104 | 2.1500e-003 | 226.5815 |
| Retirement Community | 874602 | 250.2821 | 0.0115 | 2.3800e-003 | 251.2616 |
| Single Family Housing | 1.15322e+008 | 33,001.4616 | 1.5170 | 0.3139 | 33,130.6135 |
| Strip Mall | 5.45422e+007 | 15,608.1741 | 0.7175 | 0.1484 | 15,669.2569 |
| Unrefrigerated Warehouse-No | 919246 | 263.0577 | 0.0121 | 2.5000e-003 | 264.0871 |
| Total | | 179,150.8919 | 8.2350 | 1.7038 | 179,852.0024 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |
| Unmitigated | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 104.6012 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 457.4836 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 29.8627 | 0.3367 | 32.7205 | 0.0000 | | 4.6252 | 4.6252 | | 4.6236 | 4.6236 | 399.4006 | 2,074.6408 | 2,474.0414 | 0.0398 | 0.0733 | 2,497.5921 |
| Landscaping | 12.9295 | 4.9746 | 431.3039 | 0.0229 | | 2.3991 | 2.3991 | | 2.3991 | 2.3991 | 0.0000 | 707.1858 | 707.1858 | 0.6749 | 0.0000 | 721.3595 |
| Total | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |

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Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 104.6012 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 457.4836 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 29.8627 | 0.3367 | 32.7205 | 0.0000 | | 4.6252 | 4.6252 | | 4.6236 | 4.6236 | 399.4006 | 2,074.6408 | 2,474.0414 | 0.0398 | 0.0733 | 2,497.5921 |
| Landscaping | 12.9295 | 4.9746 | 431.3039 | 0.0229 | | 2.3991 | 2.3991 | | 2.3991 | 2.3991 | 0.0000 | 707.1858 | 707.1858 | 0.6749 | 0.0000 | 721.3595 |
| Total | 604.8771 | 5.3113 | 464.0243 | 0.0229 | | 7.0243 | 7.0243 | | 7.0228 | 7.0228 | 399.4006 | 2,781.8265 | 3,181.2272 | 0.7147 | 0.0733 | 3,218.9516 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|--------|--------|-------------|
| Category | MT/yr | | | |
| Mitigated | 30,359.4084 | 8.1839 | 4.6331 | 31,967.5265 |
| Unmitigated | 30,359.4084 | 8.2216 | 4.6409 | 31,970.7333 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|------------|--------|--------|------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 837.858 | 2,663.8131 | 0.1225 | 0.0253 | 2,674.2380 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

NewportBeachExisting2035
Orange County, Annual

| | | | | | |
|-----------------------------|-------------------|--------------------|---------------|---------------|--------------------|
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2255.44 / 563.859 | 10,994.8203 | 3.2153 | 1.8323 | 11,630.3584 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3425.93 / 856.484 | 16,700.7750 | 4.8839 | 2.7832 | 17,666.1369 |
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 30,359.4084 | 8.2216 | 4.6409 | 31,970.7333 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------------------|--------------------|------------|--------|--------|------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 837.858 | 2,663.8131 | 0.1225 | 0.0253 | 2,674.2380 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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Orange County, Annual**

| | | | | | |
|-------------------------------------|-------------------|--------------------|---------------|---------------|--------------------|
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2255.44 / 563.859 | 10,994.8203 | 3.2003 | 1.8292 | 11,629.0854 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3425.93 / 856.484 | 16,700.7750 | 4.8612 | 2.7785 | 17,664.2031 |
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Fuel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 30,359.4084 | 8.1839 | 4.6331 | 31,967.5265 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|------------|--------|--------------|
| | MT/yr | | | |
| Unmitigated | 71,045.0701 | 4,198.6434 | 0.0000 | 159,216.5807 |

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| | | | | |
|-----------|------------|------------|--------|-----------|
| Mitigated | 71,045.070 | 4,198.6434 | 0.0000 | 159,216.5 |
| | 1 | | | 807 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-------------|------------|--------|-------------|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 21353.3 | 4,334.5279 | 256.1633 | 0.0000 | 9,713.9564 |
| Apartments Mid Rise | 546.834 | 111.0023 | 6.5601 | 0.0000 | 248.7634 |
| Automobile Care Center | 1814.31 | 368.2892 | 21.7653 | 0.0000 | 825.3599 |
| City Park | 21.8232 | 4.4299 | 0.2618 | 0.0000 | 9.9277 |
| Condo/Townhouse | 32669.4 | 6,631.5966 | 391.9161 | 0.0000 | 14,861.8354 |
| Congregate Care (Assisted Living) | 1475.34 | 299.4798 | 17.6988 | 0.0000 | 671.1535 |
| Day-Care Center | 106.632 | 21.6453 | 1.2792 | 0.0000 | 48.5084 |
| Elementary School | 1086.06 | 220.4599 | 13.0288 | 0.0000 | 494.0648 |
| Fast Food Restaurant w/o Drive-Thru | 11.534 | 2.3413 | 0.1384 | 0.0000 | 5.2470 |
| General Light Industry | 3214.73 | 652.5606 | 38.5652 | 0.0000 | 1,462.4303 |
| General Office Building | 176753 | 35,879.2677 | 2,120.4040 | 0.0000 | 80,407.7512 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 381.479 | 77.4369 | 4.5764 | 0.0000 | 173.5410 |
| Government Office Building | 823.221 | 167.1064 | 9.8757 | 0.0000 | 374.4963 |
| Health Club | 109.737 | 22.2757 | 1.3165 | 0.0000 | 49.9212 |
| Hospital | 11312.7 | 2,296.3785 | 135.7121 | 0.0000 | 5,146.3323 |
| Hotel | 2815.61 | 571.5434 | 33.7773 | 0.0000 | 1,280.8656 |
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 87.077 | 17.6758 | 1.0446 | 0.0000 | 39.6127 |
| Medical Office Building | 22937.3 | 4,656.0549 | 275.1650 | 0.0000 | 10,434.5190 |
| Mobile Home Park | 1339.18 | 271.8425 | 16.0654 | 0.0000 | 609.2165 |
| Motel | 97.82 | 19.8566 | 1.1735 | 0.0000 | 44.4999 |
| Place of Worship | 563.181 | 114.3206 | 6.7562 | 0.0000 | 256.1998 |
| Quality Restaurant | 86.7331 | 17.6060 | 1.0405 | 0.0000 | 39.4563 |
| Regional Shopping Center | 8323.75 | 1,689.6463 | 99.8552 | 0.0000 | 3,786.6062 |
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 446.395 | 90.6142 | 5.3551 | 0.0000 | 203.0722 |

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| | | | | | |
|-----------------------------|---------|--------------------|-------------------|---------------|---------------------|
| Single Family Housing | 35727.2 | 7,252.3036 | 428.5989 | 0.0000 | 16,252.8797 |
| Strip Mall | 23107.4 | 4,690.5915 | 277.2060 | 0.0000 | 10,511.9179 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 71,045.0701 | 4,198.6434 | 0.0000 | 159,216.5807 |

Mitigated

| Land Use | Waste Disposed tons | Total CO2 MT/yr | CH4 MT/yr | N2O MT/yr | CO2e MT/yr |
|-------------------------------------|------------------------|--------------------|--------------|--------------|---------------|
| Apartments Low Rise | 21353.3 | 4,334.5279 | 256.1633 | 0.0000 | 9,713.9564 |
| Apartments Mid Rise | 546.834 | 111.0023 | 6.5601 | 0.0000 | 248.7634 |
| Automobile Care Center | 1814.31 | 368.2892 | 21.7653 | 0.0000 | 825.3599 |
| City Park | 21.8232 | 4.4299 | 0.2618 | 0.0000 | 9.9277 |
| Condo/Townhouse | 32669.4 | 6,631.5966 | 391.9161 | 0.0000 | 14,861.8354 |
| Congregate Care (Assisted Living) | 1475.34 | 299.4798 | 17.6988 | 0.0000 | 671.1535 |
| Day-Care Center | 106.632 | 21.6453 | 1.2792 | 0.0000 | 48.5084 |
| Elementary School | 1086.06 | 220.4599 | 13.0288 | 0.0000 | 494.0648 |
| Fast Food Restaurant w/o Drive Thru | 11.534 | 2.3413 | 0.1384 | 0.0000 | 5.2470 |
| General Light Industry | 3214.73 | 652.5606 | 38.5652 | 0.0000 | 1,462.4303 |
| General Office Building | 176753 | 35,879.2677 | 2,120.4040 | 0.0000 | 80,407.7512 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 381.479 | 77.4369 | 4.5764 | 0.0000 | 173.5410 |
| Government Office Building | 823.221 | 167.1064 | 9.8757 | 0.0000 | 374.4963 |
| Health Club | 109.737 | 22.2757 | 1.3165 | 0.0000 | 49.9212 |
| Hospital | 11312.7 | 2,296.3785 | 135.7121 | 0.0000 | 5,146.3323 |
| Hotel | 2815.61 | 571.5434 | 33.7773 | 0.0000 | 1,280.8656 |
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 87.077 | 17.6758 | 1.0446 | 0.0000 | 39.6127 |
| Medical Office Building | 22937.3 | 4,656.0549 | 275.1650 | 0.0000 | 10,434.5190 |
| Mobile Home Park | 1339.18 | 271.8425 | 16.0654 | 0.0000 | 609.2165 |
| Motel | 97.82 | 19.8566 | 1.1735 | 0.0000 | 44.4999 |
| Place of Worship | 563.181 | 114.3206 | 6.7562 | 0.0000 | 256.1998 |
| Quality Restaurant | 86.7331 | 17.6060 | 1.0405 | 0.0000 | 39.4563 |
| Regional Shopping Center | 8323.75 | 1,689.6463 | 99.8552 | 0.0000 | 3,786.6062 |

NewportBeachExisting2035
Orange County, Annual

| | | | | | |
|-----------------------------|---------|-------------------|------------------|---------------|---------------------|
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 446.395 | 90.6142 | 5.3551 | 0.0000 | 203.0722 |
| Single Family Housing | 35727.2 | 7,252.3036 | 428.5989 | 0.0000 | 16,252.8797 |
| Strip Mall | 23107.4 | 4,690.5915 | 277.2060 | 0.0000 | 10,511.9179 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 71,045.070 | 4,198.643 | 0.0000 | 159,216.5807 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

NewportBeachExisting2035 Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,529.88 | 1000sqft | 264.69 | 11,529,900.00 | 0 |
| Government (Civic Center) | 298.61 | 1000sqft | 6.86 | 298,614.00 | 0 |
| Government Office Building | 53.70 | 1000sqft | 1.23 | 53,700.00 | 0 |
| Hospital | 1,031.00 | Bed | 16.94 | 737,946.06 | 0 |
| Medical Office Building | 1,496.23 | 1000sqft | 34.35 | 1,496,230.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 83.47 | 1000sqft | 1.92 | 83,469.00 | 0 |
| Elementary School | 5,951.00 | Student | 11.42 | 497,523.66 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 68.16 | 1000sqft | 1.56 | 68,162.00 | 0 |
| Place of Worship | 440.85 | 1000sqft | 10.12 | 440,846.00 | 0 |
| General Light Industry | 1,240.49 | 1000sqft | 28.48 | 1,240,490.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 242.48 | Acre | 242.48 | 10,562,428.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 12.64 | 1000sqft | 0.29 | 12,640.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 85.90 | 1000sqft | 1.97 | 85,900.00 | 0 |
| Hotel | 3,857.00 | Room | 128.57 | 5,600,364.00 | 0 |
| Motel | 134.00 | Room | 6.03 | 262,666.80 | 0 |
| Movie Theater (No Matinee) | 4,469.00 | Seat | 2.31 | 100,552.50 | 0 |
| Quality Restaurant | 95.05 | 1000sqft | 2.18 | 95,050.00 | 0 |
| Apartments Low Rise | 9,567.00 | Dwelling Unit | 597.94 | 9,567,000.00 | 27362 |
| Apartments Mid Rise | 245.00 | Dwelling Unit | 6.45 | 245,000.00 | 701 |
| Condo/Townhouse | 14,637.00 | Dwelling Unit | 914.81 | 14,637,000.00 | 41862 |
| Congregate Care (Assisted Living) | 661.00 | Dwelling Unit | 41.31 | 661,000.00 | 1890 |
| Mobile Home Park | 600.00 | Dwelling Unit | 75.59 | 720,000.00 | 1716 |
| Retirement Community | 200.00 | Dwelling Unit | 40.00 | 200,000.00 | 572 |
| Single Family Housing | 16,007.00 | Dwelling Unit | 5,197.08 | 28,812,600.00 | 45780 |
| Automobile Care Center | 318.64 | 1000sqft | 7.31 | 318,636.00 | 0 |
| Regional Shopping Center | 1,461.85 | 1000sqft | 33.56 | 1,461,850.00 | 0 |
| Strip Mall | 4,058.20 | 1000sqft | 93.16 | 4,058,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
Land Use -

NewportBeachExisting2035
Orange County, Summer

- Construction Phase - Existing
- Off-road Equipment - Existing
- Trips and VMT - Existing
- Architectural Coating - Existing
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|---------------------------|-----------------------------------|----------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 35,880,707.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 107,642,121.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 37,018,755.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 111,056,265.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 8,131.95 | 2,032.99 |
| tblFireplaces | NumberGas | 208.25 | 52.06 |
| tblFireplaces | NumberGas | 12,441.45 | 3,110.36 |
| tblFireplaces | NumberGas | 561.85 | 0.00 |
| tblFireplaces | NumberGas | 510.00 | 0.00 |
| tblFireplaces | NumberGas | 170.00 | 42.50 |
| tblFireplaces | NumberGas | 13,605.95 | 3,401.49 |
| tblFireplaces | NumberNoFireplace | 956.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 24.50 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,463.70 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 66.10 | 661.00 |
| tblFireplaces | NumberNoFireplace | 60.00 | 600.00 |
| tblFireplaces | NumberNoFireplace | 20.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,600.70 | 12,405.42 |
| tblFireplaces | NumberWood | 478.35 | 119.59 |
| tblFireplaces | NumberWood | 12.25 | 3.06 |
| tblFireplaces | NumberWood | 731.85 | 182.96 |
| tblFireplaces | NumberWood | 33.05 | 0.00 |
| tblFireplaces | NumberWood | 30.00 | 0.00 |
| tblFireplaces | NumberWood | 10.00 | 2.50 |
| tblFireplaces | NumberWood | 800.35 | 200.09 |
| tblLandUse | LandUseSquareFeet | 298,610.00 | 298,614.00 |
| tblLandUse | LandUseSquareFeet | 83,470.00 | 83,469.00 |
| tblLandUse | LandUseSquareFeet | 68,160.00 | 68,162.00 |
| tblLandUse | LandUseSquareFeet | 440,850.00 | 440,846.00 |
| tblLandUse | LandUseSquareFeet | 318,640.00 | 318,636.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 4,400.82 | 21,353.30 |
| tblSolidWaste | SolidWasteGenerationRate | 112.70 | 546.83 |
| tblSolidWaste | SolidWasteGenerationRate | 1,217.20 | 1,814.31 |
| tblSolidWaste | SolidWasteGenerationRate | 20.85 | 21.82 |

**NewportBeachExisting2035
Orange County, Summer**

| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

NewportBeachExisting2035
Orange County, Summer

| | | | |
|----------|---------------------|------------------|------------------|
| tblWater | IndoorWaterUseRate | 29,978,004.08 | 0.00 |
| tblWater | IndoorWaterUseRate | 953,659,473.02 | 0.00 |
| tblWater | IndoorWaterUseRate | 43,066,810.94 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,579,992.20 | 0.00 |
| tblWater | IndoorWaterUseRate | 14,426,652.24 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,836,666.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 286,863,312.50 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,049,252,340.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 59,321,768.80 | 0.00 |
| tblWater | IndoorWaterUseRate | 10,668,025.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 5,080,396.07 | 0.00 |
| tblWater | IndoorWaterUseRate | 92,597,868.38 | 0.00 |
| tblWater | IndoorWaterUseRate | 97,839,631.89 | 0.00 |
| tblWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,132,651.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 187,747,744.71 | 0.00 |
| tblWater | IndoorWaterUseRate | 39,092,415.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,399,147.18 | 0.00 |
| tblWater | IndoorWaterUseRate | 40,382,030.98 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,793,715.26 | 0.00 |
| tblWater | IndoorWaterUseRate | 28,850,879.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 108,282,915.53 | 2,255,436,026.70 |
| tblWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,030,805.12 | 0.00 |
| tblWater | IndoorWaterUseRate | 1,042,920,488.12 | 3,425,934,096.88 |
| tblWater | IndoorWaterUseRate | 300,601,106.69 | 0.00 |
| tblWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tblWater | OutdoorWaterUseRate | 392,968,007.18 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,063,464.17 | 0.00 |
| tblWater | OutdoorWaterUseRate | 18,373,615.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 288,910,397.67 | 837,857,788.32 |
| tblWater | OutdoorWaterUseRate | 601,220,102.56 | 0.00 |
| tblWater | OutdoorWaterUseRate | 27,150,815.59 | 0.00 |
| tblWater | OutdoorWaterUseRate | 9,205,694.23 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,097,105.76 | 0.00 |
| tblWater | OutdoorWaterUseRate | 244,893.58 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,255,993,370.28 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 36,358,503.46 | 0.00 |
| tblWater | OutdoorWaterUseRate | 6,538,467.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,113,791.14 | 0.00 |
| tblWater | OutdoorWaterUseRate | 17,637,689.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,871,070.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,335,686.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 35,761,475.18 | 0.00 |

NewportBeachExisting2035

Orange County, Summer

| | | | |
|---------------|---------------------|----------------|----------------|
| tblWater | OutdoorWaterUseRate | 24,645,218.39 | 0.00 |
| tblWater | OutdoorWaterUseRate | 377,683.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,577,576.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 21,574,785.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,841,545.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 66,366,948.23 | 563,859,006.68 |
| tblWater | OutdoorWaterUseRate | 8,215,072.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 657,493,351.21 | 856,483,524.22 |
| tblWater | OutdoorWaterUseRate | 184,239,387.97 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 478.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberCatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberCatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 10.00 | 0.00 |

**NewportBeachExisting2035
Orange County, Summer**

| | | | |
|---------------|--------------------|--------|------|
| tblWoodstoves | NumberCatalytic | 800.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 478.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 10.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 800.35 | 0.00 |

2.0 Emissions Summary

**2.2 Overall Operational
Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Energy | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| Mobile | 1,544.3321 | 2,801.6101 | 15,243.2723 | 74.4278 | 5,144.7816 | 79.7066 | 5,224.4881 | 1,373.8078 | 73.6287 | 1,447.4365 | | 5,187,370.7195 | 5,187,370.7195 | 139.2171 | | 5,190,294.2782 |
| Total | 7,158.0310 | 3,229.8123 | 21,522.3968 | 76.8651 | 5,144.7816 | 497.4685 | 5,642.2501 | 1,373.8078 | 491.2686 | 1,865.0764 | 35,221.1059 | 5,827,432.6905 | 5,862,653.7964 | 157.3174 | 14.7279 | 5,870,523.1042 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Energy | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| Mobile | 1,544.3321 | 2,801.6101 | 15,243.2723 | 74.4278 | 5,144.7816 | 79.7066 | 5,224.4881 | 1,373.8078 | 73.6287 | 1,447.4365 | | 5,187,370.7195 | 5,187,370.7195 | 139.2171 | | 5,190,294.2782 |
| Total | 7,158.0310 | 3,229.8123 | 21,522.3968 | 76.8651 | 5,144.7816 | 497.4685 | 5,642.2501 | 1,373.8078 | 491.2686 | 1,865.0764 | 35,221.1059 | 5,827,432.6905 | 5,862,653.7964 | 157.3174 | 14.7279 | 5,870,523.1042 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NewportBeachExisting2035 Orange County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|----------|-----|----------------|
| lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,544.3321 | 2,801.6101 | 15,243.2723 | 74.4278 | 5,144.7816 | 79.7066 | 5,224.4881 | 1,373.8078 | 73.6287 | 1,447.4365 | | 5,187,370.7195 | 5,187,370.7195 | 139.2171 | | 5,190,294.2782 |
| Unmitigated | 1,544.3321 | 2,801.6101 | 15,243.2723 | 74.4278 | 5,144.7816 | 79.7066 | 5,224.4881 | 1,373.8078 | 73.6287 | 1,447.4365 | | 5,187,370.7195 | 5,187,370.7195 | 139.2171 | | 5,190,294.2782 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-------------------|-------------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Apartments Low Rise | 63,046.53 | 68,499.72 | 58071.69 | 197,233,040 | 197,233,040 |
| Apartments Mid Rise | 1,614.55 | 1,754.20 | 1487.15 | 5,050,914 | 5,050,914 |
| Automobile Care Center | 19,755.68 | 19,755.68 | 19755.68 | 23,670,298 | 23,670,298 |
| City Park | 385.54 | 385.54 | 385.54 | 991,500 | 991,500 |
| Condo/Townhouse | 96,457.83 | 104,800.92 | 88846.59 | 301,756,037 | 301,756,037 |
| Congregate Care (Assisted Living) | 1,811.14 | 1,454.20 | 1612.84 | 5,411,912 | 5,411,912 |
| Day-Care Center | 6,615.83 | 518.35 | 486.63 | 7,308,833 | 7,308,833 |
| Elementary School | 7,676.79 | 0.00 | 0.00 | 13,389,884 | 13,389,884 |
| Fast Food Restaurant w/o Drive Thru | 9,050.24 | 8,797.44 | 6320.00 | 18,327,020 | 18,327,020 |
| General Light Industry | 8,646.22 | 1,637.45 | 843.53 | 21,441,437 | 21,441,437 |
| General Office Building | 126,943.98 | 27,325.82 | 11299.28 | 276,933,126 | 276,933,126 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,394,086 | 8,394,086 |
| Government (Civic Center) | 8,337.19 | 0.00 | 0.00 | 12,297,082 | 12,297,082 |
| Government Office Building | 3,701.54 | 0.00 | 0.00 | 5,459,651 | 5,459,651 |
| Health Club | 2,828.69 | 1,792.73 | 2296.11 | 5,669,722 | 5,669,722 |
| Hospital | 12,176.11 | 8,392.34 | 7412.89 | 30,567,312 | 30,567,312 |
| Hotel | 31,511.69 | 31,588.83 | 22949.15 | 72,033,250 | 72,033,250 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,735,554 | 14,735,554 |
| Library | 3,833.32 | 3,172.85 | 1737.40 | 6,673,763 | 6,673,763 |
| Medical Office Building | 54,058.79 | 13,406.22 | 2319.16 | 97,228,552 | 97,228,552 |
| Mobile Home Park | 2,994.00 | 3,000.00 | 2616.00 | 9,190,136 | 9,190,136 |
| Motel | 754.42 | 754.42 | 754.42 | 1,793,539 | 1,793,539 |
| Movie Theater (No Matinee) | 8,044.20 | 8,044.20 | 8044.20 | 19,940,797 | 19,940,797 |
| Place of Worship | 4,016.14 | 4,571.61 | 16148.34 | 14,435,974 | 14,435,974 |
| Quality Restaurant | 8,549.75 | 8,968.92 | 6858.81 | 12,652,223 | 12,652,223 |
| Regional Shopping Center | 62,771.84 | 73,048.64 | 36897.09 | 133,966,477 | 133,966,477 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,535,644 | 1,535,644 |
| Retirement Community | 562.00 | 562.00 | 562.00 | 1,756,242 | 1,756,242 |
| Single Family Housing | 153,186.99 | 161,350.56 | 140381.39 | 476,634,797 | 476,634,797 |
| Strip Mall | 179,859.42 | 170,606.73 | 82909.03 | 319,723,428 | 319,723,428 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,670,347 | 1,670,347 |
| Total | 892,497.14 | 729,110.83 | 525,895.70 | 2,117,872,577 | 2,117,872,577 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

**NewportBeachExisting2035
Orange County, Summer**

| | | | | | | | | | |
|--|------|------|------|-------|-------|-------|----|----|----|
| Congregate Care (Assisted Day-Care Center) | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Elementary School | 9.67 | 9.67 | 9.67 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.67 | 9.67 | 9.67 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.67 | 9.67 | 9.67 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.67 | 9.67 | 9.67 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.67 | 9.67 | 9.67 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.67 | 9.67 | 9.67 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.67 | 9.67 | 9.67 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.67 | 9.67 | 9.67 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.67 | 9.67 | 9.67 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.67 | 9.67 | 9.67 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.67 | 9.67 | 9.67 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.67 | 9.67 | 9.67 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.67 | 9.67 | 9.67 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.67 | 9.67 | 9.67 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.67 | 9.67 | 9.67 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.67 | 9.67 | 9.67 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.67 | 9.67 | 9.67 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| NaturalGas Unmitigated | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

NewportBeachExisting2035 Orange County, Summer

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|----------------|-----------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|---------------------|---------------------|---------------|---------------|---------------------|
| | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 6133.09 | 0.0661 | 0.5652 | 0.2405 | 3.6100e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | | 721.5398 | 721.5398 | 0.0138 | 0.0132 | 725.9310 |
| Automobile Care Center | 19292.8 | 0.2081 | 1.8915 | 1.5888 | 0.0114 | | 0.1438 | 0.1438 | | 0.1438 | 0.1438 | | 2,269.7359 | 2,269.7359 | 0.0435 | 0.0416 | 2,283.5491 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 673470 | 7.2629 | 62.0649 | 26.4106 | 0.3962 | | 5.0180 | 5.0180 | | 5.0180 | 5.0180 | | 79,231.8148 | 79,231.8148 | 1.5186 | 1.4526 | 79,714.0064 |
| Congregate Care (Assisted Living) | 16546.8 | 0.1785 | 1.5249 | 0.6489 | 9.7300e-003 | | 0.1233 | 0.1233 | | 0.1233 | 0.1233 | | 1,946.6850 | 1,946.6850 | 0.0373 | 0.0357 | 1,958.5322 |
| Day-Care Center | 3064.34 | 0.0331 | 0.3004 | 0.2524 | 1.8000e-003 | | 0.0228 | 0.0228 | | 0.0228 | 0.0228 | | 360.5108 | 360.5108 | 6.9100e-003 | 6.6100e-003 | 362.7048 |
| Elementary School | 18265.3 | 0.1970 | 1.7907 | 1.5042 | 0.0107 | | 0.1361 | 0.1361 | | 0.1361 | 0.1361 | | 2,148.8532 | 2,148.8532 | 0.0412 | 0.0394 | 2,161.9308 |
| Fast Food Restaurant w/o Drive-Thru | 9158.29 | 0.0988 | 0.8979 | 0.7542 | 5.3900e-003 | | 0.0682 | 0.0682 | | 0.0682 | 0.0682 | | 1,077.4454 | 1,077.4454 | 0.0207 | 0.0198 | 1,084.0026 |
| General Light Industry | 75109.1 | 0.8100 | 7.3636 | 6.1855 | 0.0442 | | 0.5596 | 0.5596 | | 0.5596 | 0.5596 | | 8,836.3671 | 8,836.3671 | 0.1694 | 0.1620 | 8,890.1438 |
| General Office Building | 342106 | 3.6894 | 33.5398 | 28.1735 | 0.2012 | | 2.5490 | 2.5490 | | 2.5490 | 2.5490 | | 40,247.8056 | 40,247.8056 | 0.7714 | 0.7379 | 40,492.7471 |
| Apartments Low Rise | 305555 | 3.2952 | 28.1590 | 11.9826 | 0.1797 | | 2.2767 | 2.2767 | | 2.2767 | 2.2767 | | 35,947.6517 | 35,947.6517 | 0.6890 | 0.6590 | 36,166.4232 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8860.25 | 0.0956 | 0.8687 | 0.7297 | 5.2100e-003 | | 0.0660 | 0.0660 | | 0.0660 | 0.0660 | | 1,042.3818 | 1,042.3818 | 0.0200 | 0.0191 | 1,048.7256 |
| Government Office Building | 1593.35 | 0.0172 | 0.1562 | 0.1312 | 9.4000e-004 | | 0.0119 | 0.0119 | | 0.0119 | 0.0119 | | 187.4524 | 187.4524 | 3.5900e-003 | 3.4400e-003 | 188.5932 |
| Health Club | 5201.07 | 0.0561 | 0.5099 | 0.4283 | 3.0600e-003 | | 0.0388 | 0.0388 | | 0.0388 | 0.0388 | | 611.8904 | 611.8904 | 0.0117 | 0.0112 | 615.6143 |
| Hospital | 131739 | 1.4207 | 12.9155 | 10.8491 | 0.0775 | | 0.9816 | 0.9816 | | 0.9816 | 0.9816 | | 15,498.6512 | 15,498.6512 | 0.2971 | 0.2841 | 15,592.9734 |
| Hotel | 556047 | 5.9966 | 54.5144 | 45.7921 | 0.3271 | | 4.1431 | 4.1431 | | 4.1431 | 4.1431 | | 65,417.3058 | 65,417.3058 | 1.2538 | 1.1993 | 65,815.4247 |
| Junior High School | 22507.7 | 0.2427 | 2.2066 | 1.8536 | 0.0132 | | 0.1677 | 0.1677 | | 0.1677 | 0.1677 | | 2,647.9704 | 2,647.9704 | 0.0508 | 0.0486 | 2,664.0855 |
| Library | 4127.07 | 0.0445 | 0.4046 | 0.3399 | 2.4300e-003 | | 0.0308 | 0.0308 | | 0.0308 | 0.0308 | | 485.5375 | 485.5375 | 9.3100e-003 | 8.9000e-003 | 488.4924 |
| Medical Office Building | 44395 | 0.4788 | 4.3525 | 3.6561 | 0.0261 | | 0.3308 | 0.3308 | | 0.3308 | 0.3308 | | 5,222.9399 | 5,222.9399 | 0.1001 | 0.0958 | 5,254.7258 |
| Mobile Home Park | 33771.2 | 0.3642 | 3.1123 | 1.3244 | 0.0199 | | 0.2516 | 0.2516 | | 0.2516 | 0.2516 | | 3,973.0791 | 3,973.0791 | 0.0762 | 0.0728 | 3,997.2586 |
| Motel | 26079.6 | 0.2813 | 2.5568 | 2.1477 | 0.0153 | | 0.1943 | 0.1943 | | 0.1943 | 0.1943 | | 3,068.1853 | 3,068.1853 | 0.0588 | 0.0563 | 3,086.8577 |
| Movie Theater (No Matinee) | 6088.25 | 0.0657 | 0.5969 | 0.5014 | 3.5800e-003 | | 0.0454 | 0.0454 | | 0.0454 | 0.0454 | | 716.2644 | 716.2644 | 0.0137 | 0.0131 | 720.6235 |
| Place of Worship | 26692.3 | 0.2879 | 2.6169 | 2.1982 | 0.0157 | | 0.1989 | 0.1989 | | 0.1989 | 0.1989 | | 3,140.2729 | 3,140.2729 | 0.0602 | 0.0576 | 3,159.3841 |
| Quality Restaurant | 68868.3 | 0.7427 | 6.7518 | 5.6715 | 0.0405 | | 0.5131 | 0.5131 | | 0.5131 | 0.5131 | | 8,102.1509 | 8,102.1509 | 0.1553 | 0.1485 | 8,151.4592 |
| Regional Shopping Center | 8450.69 | 0.0911 | 0.8285 | 0.6959 | 4.9700e-003 | | 0.0630 | 0.0630 | | 0.0630 | 0.0630 | | 994.1994 | 994.1994 | 0.0191 | 0.0182 | 1,000.2499 |
| Research & Development | 4948.58 | 0.0534 | 0.4852 | 0.4075 | 2.9100e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 582.1863 | 582.1863 | 0.0112 | 0.0107 | 585.7294 |
| Retirement Community | 9202.3 | 0.0992 | 0.8481 | 0.3609 | 5.4100e-003 | | 0.0686 | 0.0686 | | 0.0686 | 0.0686 | | 1,082.6237 | 1,082.6237 | 0.0208 | 0.0199 | 1,089.2124 |
| Single Family Housing | 1.37907e+006 | 14.8723 | 127.0905 | 54.0811 | 0.8112 | | 10.2754 | 10.2754 | | 10.2754 | 10.2754 | | 162,243.2372 | 162,243.2372 | 3.1097 | 2.9745 | 163,230.6225 |
| Strip Mall | 23459.7 | 0.2530 | 2.3000 | 1.9320 | 0.0138 | | 0.1748 | 0.1748 | | 0.1748 | 0.1748 | | 2,759.9684 | 2,759.9684 | 0.0529 | 0.0506 | 2,776.7651 |
| Unrefrigerated Warehouse-No | 2626.11 | 0.0283 | 0.2575 | 0.2163 | 1.5400e-003 | | 0.0196 | 0.0196 | | 0.0196 | 0.0196 | | 308.9539 | 308.9539 | 5.9200e-003 | 5.6600e-003 | 310.8342 |
| Total | | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

NewportBeachExisting2035
Orange County, Summer

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|---------|----------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|-------------|-------------|--------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 6.13309 | 0.0661 | 0.5652 | 0.2405 | 3.6100e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | | 721.5398 | 721.5398 | 0.0138 | 0.0132 | 725.9310 |
| Automobile Care Center | 19.2928 | 0.2081 | 1.8915 | 1.5888 | 0.0114 | | 0.1438 | 0.1438 | | 0.1438 | 0.1438 | | 2,269.7359 | 2,269.7359 | 0.0435 | 0.0416 | 2,283.5491 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 673.47 | 7.2629 | 62.0649 | 26.4106 | 0.3962 | | 5.0180 | 5.0180 | | 5.0180 | 5.0180 | | 79,231.8148 | 79,231.8148 | 1.5186 | 1.4526 | 79,714.0064 |
| Congregate Care (Assisted Living) | 16.5468 | 0.1785 | 1.5249 | 0.6489 | 9.7300e-003 | | 0.1233 | 0.1233 | | 0.1233 | 0.1233 | | 1,946.6850 | 1,946.6850 | 0.0373 | 0.0357 | 1,958.5322 |
| Day-Care Center | 3.06434 | 0.0331 | 0.3004 | 0.2524 | 1.8000e-003 | | 0.0228 | 0.0228 | | 0.0228 | 0.0228 | | 360.5108 | 360.5108 | 6.9100e-003 | 6.6100e-003 | 362.7048 |
| Elementary School | 18.2653 | 0.1970 | 1.7907 | 1.5042 | 0.0107 | | 0.1361 | 0.1361 | | 0.1361 | 0.1361 | | 2,148.8532 | 2,148.8532 | 0.0412 | 0.0394 | 2,161.9308 |
| Fast Food Restaurant w/o Drive-Thru | 9.15829 | 0.0988 | 0.8979 | 0.7542 | 5.3900e-003 | | 0.0682 | 0.0682 | | 0.0682 | 0.0682 | | 1,077.4454 | 1,077.4454 | 0.0207 | 0.0198 | 1,084.0026 |
| General Light Industry | 75.1091 | 0.8100 | 7.3636 | 6.1855 | 0.0442 | | 0.5596 | 0.5596 | | 0.5596 | 0.5596 | | 8,836.3671 | 8,836.3671 | 0.1694 | 0.1620 | 8,890.1438 |
| General Office Building | 342.106 | 3.6894 | 33.5398 | 28.1735 | 0.2012 | | 2.5490 | 2.5490 | | 2.5490 | 2.5490 | | 40,247.8056 | 40,247.8056 | 0.7714 | 0.7379 | 40,492.7471 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Low Rise | 305.555 | 3.2952 | 28.1590 | 11.9826 | 0.1797 | | 2.2767 | 2.2767 | | 2.2767 | 2.2767 | | 35,947.6517 | 35,947.6517 | 0.6890 | 0.6590 | 36,166.4232 |
| Government (Civic Center) | 8.86025 | 0.0956 | 0.8687 | 0.7297 | 5.2100e-003 | | 0.0660 | 0.0660 | | 0.0660 | 0.0660 | | 1,042.3818 | 1,042.3818 | 0.0200 | 0.0191 | 1,048.7256 |
| Government Office Building | 1.59335 | 0.0172 | 0.1562 | 0.1312 | 9.4000e-004 | | 0.0119 | 0.0119 | | 0.0119 | 0.0119 | | 187.4524 | 187.4524 | 3.5900e-003 | 3.4400e-003 | 188.5932 |
| Health Club | 5.20107 | 0.0561 | 0.5099 | 0.4283 | 3.0600e-003 | | 0.0388 | 0.0388 | | 0.0388 | 0.0388 | | 611.8904 | 611.8904 | 0.0117 | 0.0112 | 615.6143 |
| Hospital | 131.739 | 1.4207 | 12.9155 | 10.8491 | 0.0775 | | 0.9816 | 0.9816 | | 0.9816 | 0.9816 | | 15,498.6512 | 15,498.6512 | 0.2971 | 0.2841 | 15,592.9734 |
| Hotel | 556.047 | 5.9966 | 54.5144 | 45.7921 | 0.3271 | | 4.1431 | 4.1431 | | 4.1431 | 4.1431 | | 65,417.3058 | 65,417.3058 | 1.2538 | 1.1993 | 65,815.4247 |
| Junior High School | 22.5077 | 0.2427 | 2.2066 | 1.8536 | 0.0132 | | 0.1677 | 0.1677 | | 0.1677 | 0.1677 | | 2,647.9704 | 2,647.9704 | 0.0508 | 0.0486 | 2,664.0855 |
| Library | 4.12707 | 0.0445 | 0.4046 | 0.3399 | 2.4300e-003 | | 0.0308 | 0.0308 | | 0.0308 | 0.0308 | | 485.5375 | 485.5375 | 9.3100e-003 | 8.9000e-003 | 488.4924 |
| Medical Office Building | 44.395 | 0.4788 | 4.3525 | 3.6561 | 0.0261 | | 0.3308 | 0.3308 | | 0.3308 | 0.3308 | | 5,222.9399 | 5,222.9399 | 0.1001 | 0.0958 | 5,254.7258 |
| Mobile Home Park | 33.7712 | 0.3642 | 3.1123 | 1.3244 | 0.0199 | | 0.2516 | 0.2516 | | 0.2516 | 0.2516 | | 3,973.0791 | 3,973.0791 | 0.0762 | 0.0728 | 3,997.2586 |
| Motel | 26.0796 | 0.2813 | 2.5568 | 2.1477 | 0.0153 | | 0.1943 | 0.1943 | | 0.1943 | 0.1943 | | 3,068.1853 | 3,068.1853 | 0.0588 | 0.0563 | 3,086.8577 |
| Movie Theater (No Matinee) | 6.08825 | 0.0657 | 0.5969 | 0.5014 | 3.5800e-003 | | 0.0454 | 0.0454 | | 0.0454 | 0.0454 | | 716.2644 | 716.2644 | 0.0137 | 0.0131 | 720.6235 |
| Place of Worship | 26.6923 | 0.2879 | 2.6169 | 2.1982 | 0.0157 | | 0.1989 | 0.1989 | | 0.1989 | 0.1989 | | 3,140.2729 | 3,140.2729 | 0.0602 | 0.0576 | 3,159.3841 |
| Quality Restaurant | 68.8683 | 0.7427 | 6.7518 | 5.6715 | 0.0405 | | 0.5131 | 0.5131 | | 0.5131 | 0.5131 | | 8,102.1509 | 8,102.1509 | 0.1553 | 0.1485 | 8,151.4592 |
| Regional Shopping Center | 8.45069 | 0.0911 | 0.8285 | 0.6959 | 4.9700e-003 | | 0.0630 | 0.0630 | | 0.0630 | 0.0630 | | 994.1994 | 994.1994 | 0.0191 | 0.0182 | 1,000.2499 |
| Research & Development | 4.94858 | 0.0534 | 0.4852 | 0.4075 | 2.9100e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 582.1863 | 582.1863 | 0.0112 | 0.0107 | 585.7294 |
| Retirement Community | 9.2023 | 0.0992 | 0.8481 | 0.3609 | 5.4100e-003 | | 0.0686 | 0.0686 | | 0.0686 | 0.0686 | | 1,082.6237 | 1,082.6237 | 0.0208 | 0.0199 | 1,089.2124 |
| Single Family Housing | 1379.07 | 14.8723 | 127.0905 | 54.0811 | 0.8112 | | 10.2754 | 10.2754 | | 10.2754 | 10.2754 | | 162,243.2372 | 162,243.2372 | 3.1097 | 2.9745 | 163,230.6225 |

NewportBeachExisting2035 Orange County, Summer

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|---------------------|---------------------|---------------|---------------|---------------------|
| Strip Mall | 23.4597 | 0.2530 | 2.3000 | 1.9320 | 0.0138 | | 0.1748 | 0.1748 | | 0.1748 | 0.1748 | | 2,759.9684 | 2,759.9684 | 0.0529 | 0.0506 | 2,776.7651 |
| Unrefrigerated Warehouse-No | 2.62611 | 0.0283 | 0.2575 | 0.2163 | 1.5400e-003 | | 0.0196 | 0.0196 | | 0.0196 | 0.0196 | | 308.9539 | 308.9539 | 5.9200e-003 | 5.6600e-003 | 310.8342 |
| Total | | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|--------|--------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Unmitigated | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 573.1574 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,506.7595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,389.0157 | 26.9346 | 2,617.6358 | 0.0000 | | 370.0135 | 370.0135 | | 369.8915 | 369.8915 | 35,221.1059 | 182,952.0000 | 218,173.1059 | 3.5066 | 6.4619 | 220,249.9221 |
| Landscaping | 103.4362 | 39.7969 | 3,450.4310 | 0.1829 | | 19.1931 | 19.1931 | | 19.1931 | 19.1931 | | 6,236.3109 | 6,236.3109 | 5.9520 | | 6,361.3018 |
| Total | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 573.1574 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,506.7595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,389.0157 | 26.9346 | 2,617.6358 | 0.0000 | | 370.0135 | 370.0135 | | 369.8915 | 369.8915 | 35,221.1059 | 182,952.0000 | 218,173.1059 | 3.5066 | 6.4619 | 220,249.9221 |
| Landscaping | 103.4362 | 39.7969 | 3,450.4310 | 0.1829 | | 19.1931 | 19.1931 | | 19.1931 | 19.1931 | | 6,236.3109 | 6,236.3109 | 5.9520 | | 6,361.3018 |
| Total | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

NewportBeachExisting2035
Orange County, Summer

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

NewportBeachExisting2035 Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,529.88 | 1000sqft | 264.69 | 11,529,900.00 | 0 |
| Government (Civic Center) | 298.61 | 1000sqft | 6.86 | 298,614.00 | 0 |
| Government Office Building | 53.70 | 1000sqft | 1.23 | 53,700.00 | 0 |
| Hospital | 1,031.00 | Bed | 16.94 | 737,946.06 | 0 |
| Medical Office Building | 1,496.23 | 1000sqft | 34.35 | 1,496,230.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 83.47 | 1000sqft | 1.92 | 83,469.00 | 0 |
| Elementary School | 5,951.00 | Student | 11.42 | 497,523.66 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 68.16 | 1000sqft | 1.56 | 68,162.00 | 0 |
| Place of Worship | 440.85 | 1000sqft | 10.12 | 440,846.00 | 0 |
| General Light Industry | 1,240.49 | 1000sqft | 28.48 | 1,240,490.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 242.48 | Acre | 242.48 | 10,562,428.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 12.64 | 1000sqft | 0.29 | 12,640.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 85.90 | 1000sqft | 1.97 | 85,900.00 | 0 |
| Hotel | 3,857.00 | Room | 128.57 | 5,600,364.00 | 0 |
| Motel | 134.00 | Room | 6.03 | 262,666.80 | 0 |
| Movie Theater (No Matinee) | 4,469.00 | Seat | 2.31 | 100,552.50 | 0 |
| Quality Restaurant | 95.05 | 1000sqft | 2.18 | 95,050.00 | 0 |
| Apartments Low Rise | 9,567.00 | Dwelling Unit | 597.94 | 9,567,000.00 | 27362 |
| Apartments Mid Rise | 245.00 | Dwelling Unit | 6.45 | 245,000.00 | 701 |
| Condo/Townhouse | 14,637.00 | Dwelling Unit | 914.81 | 14,637,000.00 | 41862 |
| Congregate Care (Assisted Living) | 661.00 | Dwelling Unit | 41.31 | 661,000.00 | 1890 |
| Mobile Home Park | 600.00 | Dwelling Unit | 75.59 | 720,000.00 | 1716 |
| Retirement Community | 200.00 | Dwelling Unit | 40.00 | 200,000.00 | 572 |
| Single Family Housing | 16,007.00 | Dwelling Unit | 5,197.08 | 28,812,600.00 | 45780 |
| Automobile Care Center | 318.64 | 1000sqft | 7.31 | 318,636.00 | 0 |
| Regional Shopping Center | 1,461.85 | 1000sqft | 33.56 | 1,461,850.00 | 0 |
| Strip Mall | 4,058.20 | 1000sqft | 93.16 | 4,058,200.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
Land Use -

NewportBeachExisting2035
Orange County, Winter

- Construction Phase - Existing
- Off-road Equipment - Existing
- Trips and VMT - Existing
- Architectural Coating - Existing
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|---------------------------|-----------------------------------|----------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 35,880,707.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 107,642,121.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 37,018,755.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 111,056,265.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 8,131.95 | 2,032.99 |
| tblFireplaces | NumberGas | 208.25 | 52.06 |
| tblFireplaces | NumberGas | 12,441.45 | 3,110.36 |
| tblFireplaces | NumberGas | 561.85 | 0.00 |
| tblFireplaces | NumberGas | 510.00 | 0.00 |
| tblFireplaces | NumberGas | 170.00 | 42.50 |
| tblFireplaces | NumberGas | 13,605.95 | 3,401.49 |
| tblFireplaces | NumberNoFireplace | 956.70 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 24.50 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,463.70 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 66.10 | 661.00 |
| tblFireplaces | NumberNoFireplace | 60.00 | 600.00 |
| tblFireplaces | NumberNoFireplace | 20.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,600.70 | 12,405.42 |
| tblFireplaces | NumberWood | 478.35 | 119.59 |
| tblFireplaces | NumberWood | 12.25 | 3.06 |
| tblFireplaces | NumberWood | 731.85 | 182.96 |
| tblFireplaces | NumberWood | 33.05 | 0.00 |
| tblFireplaces | NumberWood | 30.00 | 0.00 |
| tblFireplaces | NumberWood | 10.00 | 2.50 |
| tblFireplaces | NumberWood | 800.35 | 200.09 |
| tblLandUse | LandUseSquareFeet | 298,610.00 | 298,614.00 |
| tblLandUse | LandUseSquareFeet | 83,470.00 | 83,469.00 |
| tblLandUse | LandUseSquareFeet | 68,160.00 | 68,162.00 |
| tblLandUse | LandUseSquareFeet | 440,850.00 | 440,846.00 |
| tblLandUse | LandUseSquareFeet | 318,640.00 | 318,636.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 4,400.82 | 21,353.30 |
| tblSolidWaste | SolidWasteGenerationRate | 112.70 | 546.83 |
| tblSolidWaste | SolidWasteGenerationRate | 1,217.20 | 1,814.31 |
| tblSolidWaste | SolidWasteGenerationRate | 20.85 | 21.82 |

NewportBeachExisting2035
Orange County, Winter

| | | | |
|-----------------|--------------------------|-----------|------------|
| tblSolidWaste | SolidWasteGenerationRate | 6,733.02 | 32,669.42 |
| tblSolidWaste | SolidWasteGenerationRate | 603.16 | 1,475.34 |
| tblSolidWaste | SolidWasteGenerationRate | 108.51 | 106.63 |
| tblSolidWaste | SolidWasteGenerationRate | 1,086.06 | 1,086.06 |
| tblSolidWaste | SolidWasteGenerationRate | 145.60 | 11.53 |
| tblSolidWaste | SolidWasteGenerationRate | 1,538.21 | 3,214.73 |
| tblSolidWaste | SolidWasteGenerationRate | 10,722.81 | 176,753.03 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,702.08 | 381.48 |
| tblSolidWaste | SolidWasteGenerationRate | 49.94 | 823.22 |
| tblSolidWaste | SolidWasteGenerationRate | 489.63 | 109.74 |
| tblSolidWaste | SolidWasteGenerationRate | 3,010.52 | 11,312.71 |
| tblSolidWaste | SolidWasteGenerationRate | 2,111.71 | 2,815.61 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 62.77 | 87.08 |
| tblSolidWaste | SolidWasteGenerationRate | 16,159.28 | 22,937.25 |
| tblSolidWaste | SolidWasteGenerationRate | 276.00 | 1,339.19 |
| tblSolidWaste | SolidWasteGenerationRate | 73.36 | 97.82 |
| tblSolidWaste | SolidWasteGenerationRate | 2,512.85 | 563.18 |
| tblSolidWaste | SolidWasteGenerationRate | 86.73 | 86.73 |
| tblSolidWaste | SolidWasteGenerationRate | 1,534.94 | 8,323.75 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 92.00 | 446.40 |
| tblSolidWaste | SolidWasteGenerationRate | 18,769.80 | 35,727.22 |
| tblSolidWaste | SolidWasteGenerationRate | 4,261.11 | 23,107.39 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 10,511.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |

NewportBeachExisting2035
Orange County, Winter

| | | | |
|-----------------|--------|-------|------|
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CC_TL | 8.40 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |

NewportBeachExisting2035
Orange County, Winter

| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | CW_TL | 16.60 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HO_TL | 8.70 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HS_TL | 5.90 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblVehicleTrips | HW_TL | 14.70 | 9.67 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

NewportBeachExisting2035
Orange County, Winter

| | | | |
|----------|---------------------|------------------|------------------|
| tblWater | IndoorWaterUseRate | 29,978,004.08 | 0.00 |
| tblWater | IndoorWaterUseRate | 953,659,473.02 | 0.00 |
| tblWater | IndoorWaterUseRate | 43,066,810.94 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,579,992.20 | 0.00 |
| tblWater | IndoorWaterUseRate | 14,426,652.24 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,836,666.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 286,863,312.50 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,049,252,340.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 59,321,768.80 | 0.00 |
| tblWater | IndoorWaterUseRate | 10,668,025.13 | 0.00 |
| tblWater | IndoorWaterUseRate | 5,080,396.07 | 0.00 |
| tblWater | IndoorWaterUseRate | 92,597,868.38 | 0.00 |
| tblWater | IndoorWaterUseRate | 97,839,631.89 | 0.00 |
| tblWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,132,651.99 | 0.00 |
| tblWater | IndoorWaterUseRate | 187,747,744.71 | 0.00 |
| tblWater | IndoorWaterUseRate | 39,092,415.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,399,147.18 | 0.00 |
| tblWater | IndoorWaterUseRate | 40,382,030.98 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,793,715.26 | 0.00 |
| tblWater | IndoorWaterUseRate | 28,850,879.37 | 0.00 |
| tblWater | IndoorWaterUseRate | 108,282,915.53 | 2,255,436,026.70 |
| tblWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tblWater | IndoorWaterUseRate | 13,030,805.12 | 0.00 |
| tblWater | IndoorWaterUseRate | 1,042,920,488.12 | 3,425,934,096.88 |
| tblWater | IndoorWaterUseRate | 300,601,106.69 | 0.00 |
| tblWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tblWater | OutdoorWaterUseRate | 392,968,007.18 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,063,464.17 | 0.00 |
| tblWater | OutdoorWaterUseRate | 18,373,615.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 288,910,397.67 | 837,857,788.32 |
| tblWater | OutdoorWaterUseRate | 601,220,102.56 | 0.00 |
| tblWater | OutdoorWaterUseRate | 27,150,815.59 | 0.00 |
| tblWater | OutdoorWaterUseRate | 9,205,694.23 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,097,105.76 | 0.00 |
| tblWater | OutdoorWaterUseRate | 244,893.58 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,255,993,370.28 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 36,358,503.46 | 0.00 |
| tblWater | OutdoorWaterUseRate | 6,538,467.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,113,791.14 | 0.00 |
| tblWater | OutdoorWaterUseRate | 17,637,689.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 10,871,070.21 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,335,686.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 35,761,475.18 | 0.00 |

NewportBeachExisting2035 Orange County, Winter

| | | | |
|---------------|---------------------|----------------|----------------|
| tblWater | OutdoorWaterUseRate | 24,645,218.39 | 0.00 |
| tblWater | OutdoorWaterUseRate | 377,683.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,577,576.45 | 0.00 |
| tblWater | OutdoorWaterUseRate | 21,574,785.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,841,545.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 66,366,948.23 | 563,859,006.68 |
| tblWater | OutdoorWaterUseRate | 8,215,072.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 657,493,351.21 | 856,483,524.22 |
| tblWater | OutdoorWaterUseRate | 184,239,387.97 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 478.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberCatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberCatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 10.00 | 0.00 |

NewportBeachExisting2035 Orange County, Winter

| | | | |
|---------------|--------------------|--------|------|
| tblWoodstoves | NumberCatalytic | 800.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 478.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 12.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 731.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 33.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 30.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 10.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 800.35 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Energy | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| Mobile | 1,631.7768 | 2,936.7492 | 15,424.0424 | 71.1492 | 5,144.7816 | 79.9694 | 5,224.7510 | 1,373.8078 | 73.8705 | 1,447.6782 | | 4,973,825.2976 | 4,973,825.2976 | 139.4428 | | 4,976,753.5964 |
| Total | 7,245.4757 | 3,364.9513 | 21,703.1669 | 73.5865 | 5,144.7816 | 497.7314 | 5,642.5130 | 1,373.8078 | 491.5104 | 1,865.3182 | 35,221.1059 | 5,613,887.2685 | 5,649,108.3745 | 157.5431 | 14.7279 | 5,656,982.4224 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Energy | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| Mobile | 1,631.7768 | 2,936.7492 | 15,424.0424 | 71.1492 | 5,144.7816 | 79.9694 | 5,224.7510 | 1,373.8078 | 73.8705 | 1,447.6782 | | 4,973,825.2976 | 4,973,825.2976 | 139.4428 | | 4,976,753.5964 |
| Total | 7,245.4757 | 3,364.9513 | 21,703.1669 | 73.5865 | 5,144.7816 | 497.7314 | 5,642.5130 | 1,373.8078 | 491.5104 | 1,865.3182 | 35,221.1059 | 5,613,887.2685 | 5,649,108.3745 | 157.5431 | 14.7279 | 5,656,982.4224 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NewportBeachExisting2035 Orange County, Winter

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|----------|-----|----------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,631.7768 | 2,936.7492 | 15,424.0424 | 71.1492 | 5,144.7816 | 79.9694 | 5,224.7510 | 1,373.8078 | 73.8705 | 1,447.6782 | | 4,973,825.2976 | 4,973,825.2976 | 139.4428 | | 4,976,753.5964 |
| Unmitigated | 1,631.7768 | 2,936.7492 | 15,424.0424 | 71.1492 | 5,144.7816 | 79.9694 | 5,224.7510 | 1,373.8078 | 73.8705 | 1,447.6782 | | 4,973,825.2976 | 4,973,825.2976 | 139.4428 | | 4,976,753.5964 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 63,046.53 | 68,499.72 | 58071.69 | 197,233,040 | 197,233,040 |
| Apartments Mid Rise | 1,614.55 | 1,754.20 | 1487.15 | 5,050,914 | 5,050,914 |
| Automobile Care Center | 19,755.68 | 19,755.68 | 19755.68 | 23,670,298 | 23,670,298 |
| City Park | 385.54 | 385.54 | 385.54 | 991,500 | 991,500 |
| Condo/Townhouse | 96,457.83 | 104,800.92 | 88846.59 | 301,756,037 | 301,756,037 |
| Congregate Care (Assisted Living) | 1,811.14 | 1,454.20 | 1612.84 | 5,411,912 | 5,411,912 |
| Day-Care Center | 6,615.83 | 518.35 | 486.63 | 7,308,833 | 7,308,833 |
| Elementary School | 7,676.79 | 0.00 | 0.00 | 13,389,884 | 13,389,884 |
| Fast Food Restaurant w/o Drive Thru | 9,050.24 | 8,797.44 | 6320.00 | 18,327,020 | 18,327,020 |
| General Light Industry | 8,646.22 | 1,637.45 | 843.53 | 21,441,437 | 21,441,437 |
| General Office Building | 126,943.98 | 27,325.82 | 11299.28 | 276,933,126 | 276,933,126 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,394,086 | 8,394,086 |
| Government (Civic Center) | 8,337.19 | 0.00 | 0.00 | 12,297,082 | 12,297,082 |
| Government Office Building | 3,701.54 | 0.00 | 0.00 | 5,459,651 | 5,459,651 |
| Health Club | 2,828.69 | 1,792.73 | 2296.11 | 5,669,722 | 5,669,722 |
| Hospital | 12,176.11 | 8,392.34 | 7412.89 | 30,567,312 | 30,567,312 |
| Hotel | 31,511.69 | 31,588.83 | 22949.15 | 72,033,250 | 72,033,250 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,735,554 | 14,735,554 |
| Library | 3,833.32 | 3,172.85 | 1737.40 | 6,673,763 | 6,673,763 |
| Medical Office Building | 54,058.79 | 13,406.22 | 2319.16 | 97,228,552 | 97,228,552 |
| Mobile Home Park | 2,994.00 | 3,000.00 | 2616.00 | 9,190,136 | 9,190,136 |
| Motel | 754.42 | 754.42 | 754.42 | 1,793,539 | 1,793,539 |
| Movie Theater (No Matinee) | 8,044.20 | 8,044.20 | 8044.20 | 19,940,797 | 19,940,797 |
| Place of Worship | 4,016.14 | 4,571.61 | 16148.34 | 14,435,974 | 14,435,974 |
| Quality Restaurant | 8,549.75 | 8,968.92 | 6858.81 | 12,652,223 | 12,652,223 |
| Regional Shopping Center | 62,771.84 | 73,048.64 | 36897.09 | 133,966,477 | 133,966,477 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,535,644 | 1,535,644 |
| Retirement Community | 562.00 | 562.00 | 562.00 | 1,756,242 | 1,756,242 |
| Single Family Housing | 153,186.99 | 161,350.56 | 140381.39 | 476,634,797 | 476,634,797 |
| Strip Mall | 179,859.42 | 170,606.73 | 82909.03 | 319,723,428 | 319,723,428 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,670,347 | 1,670,347 |
| Total | 892,497.14 | 729,110.83 | 525,895.70 | 2,117,872,577 | 2,117,872,577 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

**NewportBeachExisting2035
Orange County, Winter**

| | | | | | | | | | |
|--|------|------|------|-------|-------|-------|----|----|----|
| Congregate Care (Assisted Day-Care Center) | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Elementary School | 9.67 | 9.67 | 9.67 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.67 | 9.67 | 9.67 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.67 | 9.67 | 9.67 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.67 | 9.67 | 9.67 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.67 | 9.67 | 9.67 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.67 | 9.67 | 9.67 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.67 | 9.67 | 9.67 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.67 | 9.67 | 9.67 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.67 | 9.67 | 9.67 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.67 | 9.67 | 9.67 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.67 | 9.67 | 9.67 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.67 | 9.67 | 9.67 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.67 | 9.67 | 9.67 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.67 | 9.67 | 9.67 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.67 | 9.67 | 9.67 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.67 | 9.67 | 9.67 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.67 | 9.67 | 9.67 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.67 | 9.67 | 9.67 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.67 | 9.67 | 9.67 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.67 | 9.67 | 9.67 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |
| NaturalGas Unmitigated | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

NewportBeachExisting2035 Orange County, Winter

| Land Use | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|----------------|-----------------|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|---------------------|---------------------|---------------|---------------|---------------------|
| | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 305555 | 3.2952 | 28.1590 | 11.9826 | 0.1797 | | 2.2767 | 2.2767 | | 2.2767 | 2.2767 | | 35,947.6517 | 35,947.6517 | 0.6890 | 0.6590 | 36,166.4232 |
| Apartments Mid Rise | 6133.09 | 0.0661 | 0.5652 | 0.2405 | 3.6100e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | | 721.5398 | 721.5398 | 0.0138 | 0.0132 | 725.9310 |
| Automobile Care Center | 19292.8 | 0.2081 | 1.8915 | 1.5888 | 0.0114 | | 0.1438 | 0.1438 | | 0.1438 | 0.1438 | | 2,269.7359 | 2,269.7359 | 0.0435 | 0.0416 | 2,283.5491 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 673470 | 7.2629 | 62.0649 | 26.4106 | 0.3962 | | 5.0180 | 5.0180 | | 5.0180 | 5.0180 | | 79,231.8148 | 79,231.8148 | 1.5186 | 1.4526 | 79,714.0064 |
| Congregate Care (Assisted Living) | 16546.8 | 0.1785 | 1.5249 | 0.6489 | 9.7300e-003 | | 0.1233 | 0.1233 | | 0.1233 | 0.1233 | | 1,946.6850 | 1,946.6850 | 0.0373 | 0.0357 | 1,958.5322 |
| Day-Care Center | 3064.34 | 0.0331 | 0.3004 | 0.2524 | 1.8000e-003 | | 0.0228 | 0.0228 | | 0.0228 | 0.0228 | | 360.5108 | 360.5108 | 6.9100e-003 | 6.6100e-003 | 362.7048 |
| Elementary School | 18265.3 | 0.1970 | 1.7907 | 1.5042 | 0.0107 | | 0.1361 | 0.1361 | | 0.1361 | 0.1361 | | 2,148.8532 | 2,148.8532 | 0.0412 | 0.0394 | 2,161.9308 |
| Fast Food Restaurant w/o Drive Thru | 9158.29 | 0.0988 | 0.8979 | 0.7542 | 5.3900e-003 | | 0.0682 | 0.0682 | | 0.0682 | 0.0682 | | 1,077.4454 | 1,077.4454 | 0.0207 | 0.0198 | 1,084.0026 |
| General Light Industry | 75109.1 | 0.8100 | 7.3636 | 6.1855 | 0.0442 | | 0.5596 | 0.5596 | | 0.5596 | 0.5596 | | 8,836.3671 | 8,836.3671 | 0.1694 | 0.1620 | 8,890.1438 |
| General Office Building | 342106 | 3.6894 | 33.5398 | 28.1735 | 0.2012 | | 2.5490 | 2.5490 | | 2.5490 | 2.5490 | | 40,247.8056 | 40,247.8056 | 0.7714 | 0.7379 | 40,492.7471 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8860.25 | 0.0956 | 0.8687 | 0.7297 | 5.2100e-003 | | 0.0660 | 0.0660 | | 0.0660 | 0.0660 | | 1,042.3818 | 1,042.3818 | 0.0200 | 0.0191 | 1,048.7256 |
| Government Office Building | 1593.35 | 0.0172 | 0.1562 | 0.1312 | 9.4000e-004 | | 0.0119 | 0.0119 | | 0.0119 | 0.0119 | | 187.4524 | 187.4524 | 3.5900e-003 | 3.4400e-003 | 188.5932 |
| Health Club | 5201.07 | 0.0561 | 0.5099 | 0.4283 | 3.0600e-003 | | 0.0388 | 0.0388 | | 0.0388 | 0.0388 | | 611.8904 | 611.8904 | 0.0117 | 0.0112 | 615.6143 |
| Hospital | 131739 | 1.4207 | 12.9155 | 10.8491 | 0.0775 | | 0.9816 | 0.9816 | | 0.9816 | 0.9816 | | 15,498.6512 | 15,498.6512 | 0.2971 | 0.2841 | 15,592.9734 |
| Hotel | 556047 | 5.9966 | 54.5144 | 45.7921 | 0.3271 | | 4.1431 | 4.1431 | | 4.1431 | 4.1431 | | 65,417.3058 | 65,417.3058 | 1.2538 | 1.1993 | 65,815.4247 |
| Junior High School | 22507.7 | 0.2427 | 2.2066 | 1.8536 | 0.0132 | | 0.1677 | 0.1677 | | 0.1677 | 0.1677 | | 2,647.9704 | 2,647.9704 | 0.0508 | 0.0486 | 2,664.0855 |
| Library | 4127.07 | 0.0445 | 0.4046 | 0.3399 | 2.4300e-003 | | 0.0308 | 0.0308 | | 0.0308 | 0.0308 | | 485.5375 | 485.5375 | 9.3100e-003 | 8.9000e-003 | 488.4924 |
| Medical Office Building | 44395 | 0.4788 | 4.3525 | 3.6561 | 0.0261 | | 0.3308 | 0.3308 | | 0.3308 | 0.3308 | | 5,222.9399 | 5,222.9399 | 0.1001 | 0.0958 | 5,254.7258 |
| Mobile Home Park | 33771.2 | 0.3642 | 3.1123 | 1.3244 | 0.0199 | | 0.2516 | 0.2516 | | 0.2516 | 0.2516 | | 3,973.0791 | 3,973.0791 | 0.0762 | 0.0728 | 3,997.2586 |
| Motel | 26079.6 | 0.2813 | 2.5568 | 2.1477 | 0.0153 | | 0.1943 | 0.1943 | | 0.1943 | 0.1943 | | 3,068.1853 | 3,068.1853 | 0.0588 | 0.0563 | 3,086.8577 |
| Movie Theater (No Matinee) | 6088.25 | 0.0657 | 0.5969 | 0.5014 | 3.5800e-003 | | 0.0454 | 0.0454 | | 0.0454 | 0.0454 | | 716.2644 | 716.2644 | 0.0137 | 0.0131 | 720.6235 |
| Place of Worship | 26692.3 | 0.2879 | 2.6169 | 2.1982 | 0.0157 | | 0.1989 | 0.1989 | | 0.1989 | 0.1989 | | 3,140.2729 | 3,140.2729 | 0.0602 | 0.0576 | 3,159.3841 |
| Quality Restaurant | 68868.3 | 0.7427 | 6.7518 | 5.6715 | 0.0405 | | 0.5131 | 0.5131 | | 0.5131 | 0.5131 | | 8,102.1509 | 8,102.1509 | 0.1553 | 0.1485 | 8,151.4592 |
| Regional Shopping Center | 8450.69 | 0.0911 | 0.8285 | 0.6959 | 4.9700e-003 | | 0.0630 | 0.0630 | | 0.0630 | 0.0630 | | 994.1994 | 994.1994 | 0.0191 | 0.0182 | 1,000.2499 |
| Research & Development | 4948.58 | 0.0534 | 0.4852 | 0.4075 | 2.9100e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 582.1863 | 582.1863 | 0.0112 | 0.0107 | 585.7294 |
| Retirement Community | 9202.3 | 0.0992 | 0.8481 | 0.3609 | 5.4100e-003 | | 0.0686 | 0.0686 | | 0.0686 | 0.0686 | | 1,082.6237 | 1,082.6237 | 0.0208 | 0.0199 | 1,089.2124 |
| Single Family Housing | 1.37907e+006 | 14.8723 | 127.0905 | 54.0811 | 0.8112 | | 10.2754 | 10.2754 | | 10.2754 | 10.2754 | | 162,243.272 | 162,243.272 | 3.1097 | 2.9745 | 163,230.6225 |
| Strip Mall | 23459.7 | 0.2530 | 2.3000 | 1.9320 | 0.0138 | | 0.1748 | 0.1748 | | 0.1748 | 0.1748 | | 2,759.9684 | 2,759.9684 | 0.0529 | 0.0506 | 2,776.7651 |
| Unrefrigerated Warehouse-No | 2626.11 | 0.0283 | 0.2575 | 0.2163 | 1.5400e-003 | | 0.0196 | 0.0196 | | 0.0196 | 0.0196 | | 308.9539 | 308.9539 | 5.9200e-003 | 5.6600e-003 | 310.8342 |
| Total | | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

NewportBeachExisting2035
Orange County, Winter

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|---------|----------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|-------------|-------------|--------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 6.13309 | 0.0661 | 0.5652 | 0.2405 | 3.6100e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | | 721.5398 | 721.5398 | 0.0138 | 0.0132 | 725.9310 |
| Automobile Care Center | 19.2928 | 0.2081 | 1.8915 | 1.5888 | 0.0114 | | 0.1438 | 0.1438 | | 0.1438 | 0.1438 | | 2,269.7359 | 2,269.7359 | 0.0435 | 0.0416 | 2,283.5491 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 673.47 | 7.2629 | 62.0649 | 26.4106 | 0.3962 | | 5.0180 | 5.0180 | | 5.0180 | 5.0180 | | 79,231.8148 | 79,231.8148 | 1.5186 | 1.4526 | 79,714.0064 |
| Congregate Care (Assisted Living) | 16.5468 | 0.1785 | 1.5249 | 0.6489 | 9.7300e-003 | | 0.1233 | 0.1233 | | 0.1233 | 0.1233 | | 1,946.6850 | 1,946.6850 | 0.0373 | 0.0357 | 1,958.5322 |
| Day-Care Center | 3.06434 | 0.0331 | 0.3004 | 0.2524 | 1.8000e-003 | | 0.0228 | 0.0228 | | 0.0228 | 0.0228 | | 360.5108 | 360.5108 | 6.9100e-003 | 6.6100e-003 | 362.7048 |
| Elementary School | 18.2653 | 0.1970 | 1.7907 | 1.5042 | 0.0107 | | 0.1361 | 0.1361 | | 0.1361 | 0.1361 | | 2,148.8532 | 2,148.8532 | 0.0412 | 0.0394 | 2,161.9308 |
| Fast Food Restaurant w/o Drive-Thru | 9.15829 | 0.0988 | 0.8979 | 0.7542 | 5.3900e-003 | | 0.0682 | 0.0682 | | 0.0682 | 0.0682 | | 1,077.4454 | 1,077.4454 | 0.0207 | 0.0198 | 1,084.0026 |
| General Light Industry | 75.1091 | 0.8100 | 7.3636 | 6.1855 | 0.0442 | | 0.5596 | 0.5596 | | 0.5596 | 0.5596 | | 8,836.3671 | 8,836.3671 | 0.1694 | 0.1620 | 8,890.1438 |
| General Office Building | 342.106 | 3.6894 | 33.5398 | 28.1735 | 0.2012 | | 2.5490 | 2.5490 | | 2.5490 | 2.5490 | | 40,247.8056 | 40,247.8056 | 0.7714 | 0.7379 | 40,492.7471 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Low Rise | 305.555 | 3.2952 | 28.1590 | 11.9826 | 0.1797 | | 2.2767 | 2.2767 | | 2.2767 | 2.2767 | | 35,947.6517 | 35,947.6517 | 0.6890 | 0.6590 | 36,166.4232 |
| Government (Civic Center) | 8.86025 | 0.0956 | 0.8687 | 0.7297 | 5.2100e-003 | | 0.0660 | 0.0660 | | 0.0660 | 0.0660 | | 1,042.3818 | 1,042.3818 | 0.0200 | 0.0191 | 1,048.7256 |
| Government Office Building | 1.59335 | 0.0172 | 0.1562 | 0.1312 | 9.4000e-004 | | 0.0119 | 0.0119 | | 0.0119 | 0.0119 | | 187.4524 | 187.4524 | 3.5900e-003 | 3.4400e-003 | 188.5932 |
| Health Club | 5.20107 | 0.0561 | 0.5099 | 0.4283 | 3.0600e-003 | | 0.0388 | 0.0388 | | 0.0388 | 0.0388 | | 611.8904 | 611.8904 | 0.0117 | 0.0112 | 615.6143 |
| Hospital | 131.739 | 1.4207 | 12.9155 | 10.8491 | 0.0775 | | 0.9816 | 0.9816 | | 0.9816 | 0.9816 | | 15,498.6512 | 15,498.6512 | 0.2971 | 0.2841 | 15,592.9734 |
| Hotel | 556.047 | 5.9966 | 54.5144 | 45.7921 | 0.3271 | | 4.1431 | 4.1431 | | 4.1431 | 4.1431 | | 65,417.3058 | 65,417.3058 | 1.2538 | 1.1993 | 65,815.4247 |
| Junior High School | 22.5077 | 0.2427 | 2.2066 | 1.8536 | 0.0132 | | 0.1677 | 0.1677 | | 0.1677 | 0.1677 | | 2,647.9704 | 2,647.9704 | 0.0508 | 0.0486 | 2,664.0855 |
| Library | 4.12707 | 0.0445 | 0.4046 | 0.3399 | 2.4300e-003 | | 0.0308 | 0.0308 | | 0.0308 | 0.0308 | | 485.5375 | 485.5375 | 9.3100e-003 | 8.9000e-003 | 488.4924 |
| Medical Office Building | 44.395 | 0.4788 | 4.3525 | 3.6561 | 0.0261 | | 0.3308 | 0.3308 | | 0.3308 | 0.3308 | | 5,222.9399 | 5,222.9399 | 0.1001 | 0.0958 | 5,254.7258 |
| Mobile Home Park | 33.7712 | 0.3642 | 3.1123 | 1.3244 | 0.0199 | | 0.2516 | 0.2516 | | 0.2516 | 0.2516 | | 3,973.0791 | 3,973.0791 | 0.0762 | 0.0728 | 3,997.2586 |
| Motel | 26.0796 | 0.2813 | 2.5568 | 2.1477 | 0.0153 | | 0.1943 | 0.1943 | | 0.1943 | 0.1943 | | 3,068.1853 | 3,068.1853 | 0.0588 | 0.0563 | 3,086.8577 |
| Movie Theater (No Matinee) | 6.08825 | 0.0657 | 0.5969 | 0.5014 | 3.5800e-003 | | 0.0454 | 0.0454 | | 0.0454 | 0.0454 | | 716.2644 | 716.2644 | 0.0137 | 0.0131 | 720.6235 |
| Place of Worship | 26.6923 | 0.2879 | 2.6169 | 2.1982 | 0.0157 | | 0.1989 | 0.1989 | | 0.1989 | 0.1989 | | 3,140.2729 | 3,140.2729 | 0.0602 | 0.0576 | 3,159.3841 |
| Quality Restaurant | 68.8683 | 0.7427 | 6.7518 | 5.6715 | 0.0405 | | 0.5131 | 0.5131 | | 0.5131 | 0.5131 | | 8,102.1509 | 8,102.1509 | 0.1553 | 0.1485 | 8,151.4592 |
| Regional Shopping Center | 8.45069 | 0.0911 | 0.8285 | 0.6959 | 4.9700e-003 | | 0.0630 | 0.0630 | | 0.0630 | 0.0630 | | 994.1994 | 994.1994 | 0.0191 | 0.0182 | 1,000.2499 |
| Research & Development | 4.94858 | 0.0534 | 0.4852 | 0.4075 | 2.9100e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 582.1863 | 582.1863 | 0.0112 | 0.0107 | 585.7294 |
| Retirement Community | 9.2023 | 0.0992 | 0.8481 | 0.3609 | 5.4100e-003 | | 0.0686 | 0.0686 | | 0.0686 | 0.0686 | | 1,082.6237 | 1,082.6237 | 0.0208 | 0.0199 | 1,089.2124 |
| Single Family Housing | 1379.07 | 14.8723 | 127.0905 | 54.0811 | 0.8112 | | 10.2754 | 10.2754 | | 10.2754 | 10.2754 | | 162,243.2372 | 162,243.2372 | 3.1097 | 2.9745 | 163,230.6225 |

NewportBeachExisting2035 Orange County, Winter

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|---------------------|---------------------|---------------|---------------|---------------------|
| Strip Mall | 23.4597 | 0.2530 | 2.3000 | 1.9320 | 0.0138 | | 0.1748 | 0.1748 | | 0.1748 | 0.1748 | | 2,759.9684 | 2,759.9684 | 0.0529 | 0.0506 | 2,776.7651 |
| Unrefrigerated Warehouse-No | 2.62611 | 0.0283 | 0.2575 | 0.2163 | 1.5400e-003 | | 0.0196 | 0.0196 | | 0.0196 | 0.0196 | | 308.9539 | 308.9539 | 5.9200e-003 | 5.6600e-003 | 310.8342 |
| Total | | 41.3301 | 361.4707 | 211.0578 | 2.2544 | | 28.5553 | 28.5553 | | 28.5553 | 28.5553 | | 450,873.6601 | 450,873.6601 | 8.6418 | 8.2660 | 453,617.6021 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|--------|--------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |
| Unmitigated | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 573.1574 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,506.7595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,389.0157 | 26.9346 | 2,617.6358 | 0.0000 | | 370.0135 | 370.0135 | | 369.8915 | 369.8915 | 35,221.1059 | 182,952.0000 | 218,173.1059 | 3.5066 | 6.4619 | 220,249.9221 |
| Landscaping | 103.4362 | 39.7969 | 3,450.4310 | 0.1829 | | 19.1931 | 19.1931 | | 19.1931 | 19.1931 | | 6,236.3109 | 6,236.3109 | 5.9520 | | 6,361.3018 |
| Total | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 573.1574 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,506.7595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,389.0157 | 26.9346 | 2,617.6358 | 0.0000 | | 370.0135 | 370.0135 | | 369.8915 | 369.8915 | 35,221.1059 | 182,952.0000 | 218,173.1059 | 3.5066 | 6.4619 | 220,249.9221 |
| Landscaping | 103.4362 | 39.7969 | 3,450.4310 | 0.1829 | | 19.1931 | 19.1931 | | 19.1931 | 19.1931 | | 6,236.3109 | 6,236.3109 | 5.9520 | | 6,361.3018 |
| Total | 5,572.3688 | 66.7314 | 6,068.0667 | 0.1829 | | 389.2066 | 389.2066 | | 389.0847 | 389.0847 | 35,221.1059 | 189,188.3109 | 224,409.4168 | 9.4585 | 6.4619 | 226,611.2239 |

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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

CalEEMod – General Plan Amendment (2035 Emission Rates)

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,773.64 | 1000sqft | 270.28 | 11,773,643.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,583.00 | Student | 12.63 | 550,360.99 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 4,860.00 | Room | 162.00 | 7,056,720.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 4,467.00 | Dwelling Unit | 72.05 | 4,467,000.00 | 12776 |
| Apartments Low Rise | 11,071.00 | Dwelling Unit | 691.94 | 11,071,000.00 | 31663 |
| Apartments Mid Rise | 1,722.00 | Dwelling Unit | 45.32 | 1,722,000.00 | 4925 |
| Condo/Townhouse | 18,286.00 | Dwelling Unit | 1,142.88 | 18,286,000.00 | 52298 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,996.00 | Dwelling Unit | 5,518.18 | 30,592,800.00 | 48609 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,686.03 | 1000sqft | 38.71 | 1,686,025.00 | 0 |
| Strip Mall | 5,666.02 | 1000sqft | 130.07 | 5,666,019.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

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- Land Use -
- Construction Phase - 2006 GP
- Off-road Equipment - operational model run
- Trips and VMT - operational model run
- Architectural Coating - operational model run
- Vehicle Trips - operational model run
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 38,831,815.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 116,495,444.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 45,473,535.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 136,420,605.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 3,796.95 | 4,467.00 |
| tblFireplaces | NumberGas | 9,410.35 | 3,536.99 |
| tblFireplaces | NumberGas | 1,463.70 | 1,529.06 |
| tblFireplaces | NumberGas | 15,543.10 | 6,759.36 |
| tblFireplaces | NumberGas | 368.05 | -228.00 |
| tblFireplaces | NumberGas | 337.45 | -203.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,446.60 | 4,390.49 |
| tblFireplaces | NumberNoFireplace | 446.70 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,107.10 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 172.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,828.60 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,699.60 | 12,405.42 |
| tblFireplaces | NumberWood | 223.35 | 0.00 |
| tblFireplaces | NumberWood | 553.55 | 119.59 |
| tblFireplaces | NumberWood | 86.10 | 3.06 |
| tblFireplaces | NumberWood | 914.30 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 849.80 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,773,600.00 | 11,773,643.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |

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| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |
| tblLandUse | LandUseSquareFeet | 1,686,030.00 | 1,686,025.00 |
| tblLandUse | LandUseSquareFeet | 5,666,020.00 | 5,666,019.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 2,054.82 | 9,970.23 |
| tblSolidWaste | SolidWasteGenerationRate | 5,092.66 | 24,710.20 |
| tblSolidWaste | SolidWasteGenerationRate | 792.12 | 3,843.46 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,411.56 | 40,813.89 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,201.40 | 1,201.40 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,949.45 | 180,489.95 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 2,660.85 | 3,547.80 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,770.33 | 9,600.23 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,929.69 | 37,934.65 |
| tblSolidWaste | SolidWasteGenerationRate | 5,949.32 | 32,262.31 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,577.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
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| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

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| | | | |
|-----------------|--------|-------|------|
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
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| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
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| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
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| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |

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|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
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| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
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| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
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| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
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| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
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| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
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| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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| | | | |
|----------|-------------------------------------|------------------|------------------|
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tblWater | IndoorWaterUseRate | 291,043,032.45 | 0.00 |
| tblWater | IndoorWaterUseRate | 721,320,217.65 | 0.00 |
| tblWater | IndoorWaterUseRate | 112,195,232.12 | 0.00 |
| tblWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tblWater | IndoorWaterUseRate | 1,191,406,512.51 | 0.00 |
| tblWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tblWater | IndoorWaterUseRate | 15,958,771.92 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tblWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,092,566,055.38 | 0.00 |
| tblWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tblWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tblWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tblWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tblWater | IndoorWaterUseRate | 123,282,502.20 | 0.00 |
| tblWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tblWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tblWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tblWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tblWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tblWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tblWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tblWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tblWater | IndoorWaterUseRate | 124,888,493.40 | 2,030,796,655.00 |
| tblWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tblWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tblWater | IndoorWaterUseRate | 1,107,357,819.46 | 3,391,648,953.00 |
| tblWater | IndoorWaterUseRate | 419,696,388.18 | 0.00 |
| tblWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tblWater | OutdoorWaterUseRate | 183,483,650.89 | 0.00 |
| tblWater | OutdoorWaterUseRate | 454,745,354.61 | 0.00 |
| tblWater | OutdoorWaterUseRate | 70,731,776.77 | 0.00 |

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| | | | |
|---------------|--------------------|--------|------|
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWater | SepticTankPercent | 10.33 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 223.35 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 553.55 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 86.10 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 914.30 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tbiWoodstoves | NumberCatalytic | 849.80 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 223.35 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 553.55 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 86.10 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 914.30 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tbiWoodstoves | NumberNoncatalytic | 849.80 | 0.00 |

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2.0 Emissions Summary

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |
| Energy | 8.4515 | 73.9734 | 43.5745 | 0.4610 | | 5.8393 | 5.8393 | | 5.8393 | 5.8393 | 0.0000 | 285,023.2109 | 285,023.2109 | 10.8600 | 3.4486 | 286,320.3497 |
| Mobile | 293.7473 | 567.5468 | 2,927.9642 | 13.5940 | 953.9529 | 15.0849 | 969.0378 | 255.1028 | 13.9347 | 269.0374 | 0.0000 | 861,389.2827 | 861,389.2827 | 23.8588 | 0.0000 | 861,890.3181 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 81,206.8418 | 0.0000 | 81,206.8418 | 4,799.1869 | 0.0000 | 181,989.7660 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,918.4698 | 27,039.1443 | 28,957.6141 | 7.8461 | 4.4292 | 30,495.4328 |
| Total | 989.3113 | 648.2281 | 3,556.6385 | 14.0842 | 953.9529 | 28.8195 | 982.7723 | 255.1028 | 27.6656 | 282.7684 | 83,524.7122 | 1,179,259.5435 | 1,262,784.2557 | 4,842.7098 | 8.0030 | 1,366,962.0766 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--------------------|-----------------------|-----------------------|-------------------|---------------|-----------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |
| Energy | 8.4515 | 73.9734 | 43.5745 | 0.4610 | | 5.8393 | 5.8393 | | 5.8393 | 5.8393 | 0.0000 | 285,023.2109 | 285,023.2109 | 10.8600 | 3.4486 | 286,320.3497 |
| Mobile | 293.7473 | 567.5468 | 2,927.9642 | 13.5940 | 953.9529 | 15.0849 | 969.0378 | 255.1028 | 13.9347 | 269.0374 | 0.0000 | 861,389.2827 | 861,389.2827 | 23.8588 | 0.0000 | 861,890.3181 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 81,206.8418 | 0.0000 | 81,206.8418 | 4,799.1869 | 0.0000 | 181,989.7660 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,918.4698 | 27,039.1443 | 28,957.6141 | 7.8101 | 4.4218 | 30,492.3722 |
| Total | 989.3113 | 648.2281 | 3,556.6385 | 14.0842 | 953.9529 | 28.8195 | 982.7723 | 255.1028 | 27.6656 | 282.7684 | 83,524.7122 | 1,179,259.5435 | 1,262,784.2557 | 4,842.6738 | 7.9955 | 1,366,959.0160 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 |

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|----------|------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|---------|--------|--------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 293.7473 | 567.5468 | 2,927.9642 | 13.5940 | 953.9529 | 15.0849 | 969.0378 | 255.1028 | 13.9347 | 269.0374 | 0.0000 | 861,389.2827 | 861,389.2827 | 23.8588 | 0.0000 | 861,890.3181 |
| Unmitigated | 293.7473 | 567.5468 | 2,927.9642 | 13.5940 | 953.9529 | 15.0849 | 969.0378 | 255.1028 | 13.9347 | 269.0374 | 0.0000 | 861,389.2827 | 861,389.2827 | 23.8588 | 0.0000 | 861,890.3181 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 29,437.53 | 31,983.72 | 27114.69 | 90,377,945 | 90,377,945 |
| Apartments Low Rise | 72,957.89 | 79,268.36 | 67200.97 | 223,992,441 | 223,992,441 |
| Apartments Mid Rise | 11,347.98 | 12,329.52 | 10452.54 | 34,840,121 | 34,840,121 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 120,504.74 | 130,927.76 | 110996.02 | 369,968,908 | 369,968,908 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,492.07 | 0.00 | 0.00 | 14,536,679 | 14,536,679 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 129,627.78 | 27,903.53 | 11538.17 | 277,526,704 | 277,526,704 |
| Golf Course | 3,686.86 | 4,257.45 | 4301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 6,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14387.19 | 58,222,060 | 58,222,060 |
| Hotel | 39,706.20 | 39,803.40 | 28917.00 | 89,076,762 | 89,076,762 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 19138.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 72,398.13 | 84,250.92 | 42555.40 | 151,639,822 | 151,639,822 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 162,651.72 | 171,319.68 | 149054.92 | 496,666,811 | 496,666,811 |
| Strip Mall | 251,118.01 | 238,199.48 | 115756.79 | 438,108,846 | 438,108,846 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,074,736.90 | 912,604.16 | 654,393.72 | 2,520,535,293 | 2,520,535,293 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |

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| | | | | | | | | | |
|--------------------------------|------|------|------|-------|-------|-------|----|----|----|
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 201,382.0020 | 201,382.0020 | 9.2569 | 1.9152 | 202,170.1143 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 201,382.0020 | 201,382.0020 | 9.2569 | 1.9152 | 202,170.1143 |
| Natural Gas Mitigated | 8.4515 | 73.9734 | 43.5745 | 0.4610 | | 5.8393 | 5.8393 | | 5.8393 | 5.8393 | 0.0000 | 83,641.2090 | 83,641.2090 | 1.6031 | 1.5334 | 84,150.2354 |
| Natural Gas Unmitigated | 8.4515 | 73.9734 | 43.5745 | 0.4610 | | 5.8393 | 5.8393 | | 5.8393 | 5.8393 | 0.0000 | 83,641.2090 | 83,641.2090 | 1.6031 | 1.5334 | 84,150.2354 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use kBTU/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------------|-------------|---------|---------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments High Rise | 3.84778e+007 | 0.2075 | 1.7730 | 0.7545 | 0.0113 | | 0.1434 | 0.1434 | | 0.1434 | 0.1434 | 0.0000 | 2,053.3243 | 2,053.3243 | 0.0394 | 0.0376 | 2,065.8205 |
| Apartments Low Rise | 1.21962e+008 | 0.6576 | 5.6198 | 2.3914 | 0.0359 | | 0.4544 | 0.4544 | | 0.4544 | 0.4544 | 0.0000 | 6,508.3633 | 6,508.3633 | 0.1247 | 0.1193 | 6,547.9721 |
| Apartments Mid Rise | 1.4833e+007 | 0.0800 | 0.6835 | 0.2908 | 4.3600e-003 | | 0.0553 | 0.0553 | | 0.0553 | 0.0553 | 0.0000 | 791.5434 | 791.5434 | 0.0152 | 0.0145 | 796.3606 |
| Automobile Care Center | 5.29423e+006 | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5201 | 282.5201 | 5.4100e-003 | 5.1800e-003 | 284.2394 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.89379e+008 | 1.5604 | 13.3341 | 5.6741 | 0.0851 | | 1.0781 | 1.0781 | | 1.0781 | 1.0781 | 0.0000 | 15,442.3686 | 15,442.3686 | 0.2960 | 0.2831 | 15,536.3483 |
| Congregate Care (Assisted Living) | 3.72978e+006 | 0.0201 | 0.1719 | 0.0731 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.0350 | 199.0350 | 3.8100e-003 | 3.6500e-003 | 200.2463 |
| Day-Care Center | 967595 | 5.2200e-003 | 0.0474 | 0.0398 | 2.8000e-004 | | 3.6000e-003 | 3.6000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 51.6346 | 51.6346 | 9.9000e-004 | 9.5000e-004 | 51.9488 |
| Elementary School | 6.82998e+006 | 0.0368 | 0.3348 | 0.2812 | 2.0100e-003 | | 0.0255 | 0.0255 | | 0.0255 | 0.0255 | 0.0000 | 364.4737 | 364.4737 | 6.9900e-003 | 6.6800e-003 | 366.6919 |
| Fast Food Restaurant w/o Drive-Thru | 2.14169e+006 | 0.0116 | 0.1050 | 0.0882 | 6.3000e-004 | | 7.9800e-003 | 7.9800e-003 | | 7.9800e-003 | 7.9800e-003 | 0.0000 | 114.2885 | 114.2885 | 2.1900e-003 | 2.1000e-003 | 114.9841 |
| General Light Industry | 1.67476e+007 | 0.0903 | 0.8210 | 0.6896 | 4.9300e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | 0.0000 | 893.7161 | 893.7161 | 0.0171 | 0.0164 | 899.1551 |
| General Office Building | 1.12909e+008 | 0.6088 | 5.5348 | 4.6492 | 0.0332 | | 0.4206 | 0.4206 | | 0.4206 | 0.4206 | 0.0000 | 6,025.2668 | 6,025.2668 | 0.1155 | 0.1105 | 6,061.9356 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 2.98266e+006 | 0.0161 | 0.1462 | 0.1228 | 8.8000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 159.1662 | 159.1662 | 3.0500e-003 | 2.9200e-003 | 160.1349 |
| Government Office Building | 611842 | 3.3000e-003 | 0.0300 | 0.0252 | 1.8000e-004 | | 2.2800e-003 | 2.2800e-003 | | 2.2800e-003 | 2.2800e-003 | 0.0000 | 32.6502 | 32.6502 | 6.3000e-004 | 6.0000e-004 | 32.8489 |
| Health Club | 2.84869e+006 | 0.0154 | 0.1396 | 0.1173 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | 0.0000 | 152.0169 | 152.0169 | 2.9100e-003 | 2.7900e-003 | 152.9421 |
| Hospital | 8.65497e+007 | 0.4667 | 4.2426 | 3.5638 | 0.0255 | | 0.3224 | 0.3224 | | 0.3224 | 0.3224 | 0.0000 | 4,618.6223 | 4,618.6223 | 0.0885 | 0.0847 | 4,646.7305 |
| Hotel | 2.52419e+008 | 1.3611 | 12.3735 | 10.3937 | 0.0742 | | 0.9404 | 0.9404 | | 0.9404 | 0.9404 | 0.0000 | 13,470.0324 | 13,470.0324 | 0.2582 | 0.2470 | 13,552.0088 |
| Junior High School | 7.60837e+006 | 0.0410 | 0.3730 | 0.3133 | 2.2400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 406.0119 | 406.0119 | 7.7800e-003 | 7.4400e-003 | 408.4828 |
| Library | 1.96842e+006 | 0.0106 | 0.0965 | 0.0811 | 5.8000e-004 | | 7.3300e-003 | 7.3300e-003 | | 7.3300e-003 | 7.3300e-003 | 0.0000 | 105.0423 | 105.0423 | 2.0100e-003 | 1.9300e-003 | 105.6815 |
| Medical Office Building | 1.39338e+007 | 0.0751 | 0.6830 | 0.5738 | 4.1000e-003 | | 0.0519 | 0.0519 | | 0.0519 | 0.0519 | 0.0000 | 743.5612 | 743.5612 | 0.0143 | 0.0136 | 748.0863 |
| Mobile Home Park | 7.64354e+006 | 0.0412 | 0.3522 | 0.1499 | 2.2500e-003 | | 0.0285 | 0.0285 | | 0.0285 | 0.0285 | 0.0000 | 407.8884 | 407.8884 | 7.8200e-003 | 7.4800e-003 | 410.3708 |
| Motel | 9.74617e+006 | 0.0526 | 0.4778 | 0.4013 | 2.8700e-003 | | 0.0363 | 0.0363 | | 0.0363 | 0.0363 | 0.0000 | 520.0929 | 520.0929 | 9.9700e-003 | 9.5400e-003 | 523.2581 |
| Movie Theater (No Matinee) | 2.16427e+006 | 0.0117 | 0.1061 | 0.0891 | 6.4000e-004 | | 8.0600e-003 | 8.0600e-003 | | 8.0600e-003 | 8.0600e-003 | 0.0000 | 115.4937 | 115.4937 | 2.2100e-003 | 2.1200e-003 | 116.1966 |
| Place of Worship | 1.13065e+007 | 0.0610 | 0.5542 | 0.4656 | 3.3300e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | 0.0000 | 603.3562 | 603.3562 | 0.0116 | 0.0111 | 607.0281 |
| Quality Restaurant | 4.07026e+007 | 0.2195 | 1.9952 | 1.6760 | 0.0120 | | 0.1516 | 0.1516 | | 0.1516 | 0.1516 | 0.0000 | 2,172.0441 | 2,172.0441 | 0.0416 | 0.0398 | 2,185.2628 |
| Regional Shopping Center | 3.45635e+006 | 0.0186 | 0.1694 | 0.1423 | 1.0200e-003 | | 0.0129 | 0.0129 | | 0.0129 | 0.0129 | 0.0000 | 184.4441 | 184.4441 | 3.5400e-003 | 3.3800e-003 | 185.5666 |
| Research & Development | 1.76864e+006 | 9.5400e-003 | 0.0867 | 0.0728 | 5.2000e-004 | | 6.5900e-003 | 6.5900e-003 | | 6.5900e-003 | 6.5900e-003 | 0.0000 | 94.3812 | 94.3812 | 1.8100e-003 | 1.7300e-003 | 94.9556 |
| Retirement Community | 5.06405e+006 | 0.0273 | 0.2333 | 0.0993 | 1.4900e-003 | | 0.0189 | 0.0189 | | 0.0189 | 0.0189 | 0.0000 | 270.2372 | 270.2372 | 5.1800e-003 | 4.9500e-003 | 271.8819 |

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| | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Single Family Housing | 4.90904e+008 | 2.6470 | 22.6201 | 9.6256 | 0.1444 | | 1.8289 | 1.8289 | | 1.8289 | 1.8289 | 0.0000 | 26,196.5051 | 26,196.5051 | 0.5021 | 0.4803 | 26,355.9327 |
| Strip Mall | 1.16153e+007 | 0.0626 | 0.5694 | 0.4783 | 3.4200e-003 | | 0.0433 | 0.0433 | | 0.0433 | 0.0433 | 0.0000 | 619.8387 | 619.8387 | 0.0119 | 0.0114 | 623.6110 |
| Unrefrigerated Warehouse-No | 811215 | 4.3700e-003 | 0.0398 | 0.0334 | 2.4000e-004 | | 3.0200e-003 | 3.0200e-003 | | 3.0200e-003 | 3.0200e-003 | 0.0000 | 43.2895 | 43.2895 | 8.3000e-004 | 7.9000e-004 | 43.5530 |
| Total | | 8.4516 | 73.9734 | 43.5745 | 0.4610 | | 5.8392 | 5.8392 | | 5.8392 | 5.8392 | 0.0000 | 83,641.2090 | 83,641.2090 | 1.6031 | 1.5334 | 84,150.2354 |

Mitigated

| Land Use | Natural Gas Use kBTU/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------------|-------------|---------|---------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Low Rise | 1.21962e+008 | 0.6576 | 5.6198 | 2.3914 | 0.0359 | | 0.4544 | 0.4544 | | 0.4544 | 0.4544 | 0.0000 | 6,508.3633 | 6,508.3633 | 0.1247 | 0.1193 | 6,547.9721 |
| Apartments Mid Rise | 1.4833e+007 | 0.0800 | 0.6835 | 0.2908 | 4.3600e-003 | | 0.0553 | 0.0553 | | 0.0553 | 0.0553 | 0.0000 | 791.5434 | 791.5434 | 0.0152 | 0.0145 | 796.3606 |
| Automobile Care Center | 5.29423e+006 | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5201 | 282.5201 | 5.4100e-003 | 5.1800e-003 | 284.2394 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 2.89379e+008 | 1.5604 | 13.3341 | 5.6741 | 0.0851 | | 1.0781 | 1.0781 | | 1.0781 | 1.0781 | 0.0000 | 15,442.3686 | 15,442.3686 | 0.2960 | 0.2831 | 15,536.3483 |
| Congregate Care (Assisted Living) | 3.72978e+006 | 0.0201 | 0.1719 | 0.0731 | 1.1000e-003 | | 0.0139 | 0.0139 | | 0.0139 | 0.0139 | 0.0000 | 199.0350 | 199.0350 | 3.8100e-003 | 3.6500e-003 | 200.2463 |
| Day-Care Center | 967595 | 5.2200e-003 | 0.0474 | 0.0398 | 2.8000e-004 | | 3.6000e-003 | 3.6000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 51.6346 | 51.6346 | 9.9000e-004 | 9.5000e-004 | 51.9488 |
| Elementary School | 6.82998e+006 | 0.0368 | 0.3348 | 0.2812 | 2.0100e-003 | | 0.0255 | 0.0255 | | 0.0255 | 0.0255 | 0.0000 | 364.4737 | 364.4737 | 6.9900e-003 | 6.6800e-003 | 366.6919 |
| Fast Food Restaurant w/o Drive Thru | 2.14169e+006 | 0.0116 | 0.1050 | 0.0882 | 6.3000e-004 | | 7.9800e-003 | 7.9800e-003 | | 7.9800e-003 | 7.9800e-003 | 0.0000 | 114.2885 | 114.2885 | 2.1900e-003 | 2.1000e-003 | 114.9841 |
| Apartments High Rise | 3.84778e+007 | 0.2075 | 1.7730 | 0.7545 | 0.0113 | | 0.1434 | 0.1434 | | 0.1434 | 0.1434 | 0.0000 | 2,053.3243 | 2,053.3243 | 0.0394 | 0.0376 | 2,065.8205 |
| General Light Industry | 1.67476e+007 | 0.0903 | 0.8210 | 0.6896 | 4.9300e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | 0.0000 | 893.7161 | 893.7161 | 0.0171 | 0.0164 | 899.1551 |
| General Office Building | 1.12909e+008 | 0.6088 | 5.5348 | 4.6492 | 0.0332 | | 0.4206 | 0.4206 | | 0.4206 | 0.4206 | 0.0000 | 6,025.2668 | 6,025.2668 | 0.1155 | 0.1105 | 6,061.9356 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 2.98266e+006 | 0.0161 | 0.1462 | 0.1228 | 8.8000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 159.1662 | 159.1662 | 3.0500e-003 | 2.9200e-003 | 160.1349 |
| Government Office Building | 611842 | 3.3000e-003 | 0.0300 | 0.0252 | 1.8000e-004 | | 2.2800e-003 | 2.2800e-003 | | 2.2800e-003 | 2.2800e-003 | 0.0000 | 32.6502 | 32.6502 | 6.3000e-004 | 6.0000e-004 | 32.8489 |
| Health Club | 2.84869e+006 | 0.0154 | 0.1396 | 0.1173 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | 0.0000 | 152.0169 | 152.0169 | 2.9100e-003 | 2.7900e-003 | 152.9421 |
| Hospital | 8.65497e+007 | 0.4667 | 4.2426 | 3.5638 | 0.0255 | | 0.3224 | 0.3224 | | 0.3224 | 0.3224 | 0.0000 | 4,618.6223 | 4,618.6223 | 0.0885 | 0.0847 | 4,646.7305 |
| Hotel | 2.52419e+008 | 1.3611 | 12.3735 | 10.3937 | 0.0742 | | 0.9404 | 0.9404 | | 0.9404 | 0.9404 | 0.0000 | 13,470.0324 | 13,470.0324 | 0.2582 | 0.2470 | 13,552.0088 |
| Junior High School | 7.60837e+006 | 0.0410 | 0.3730 | 0.3133 | 2.2400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 406.0119 | 406.0119 | 7.7800e-003 | 7.4400e-003 | 408.4828 |
| Library | 1.96842e+006 | 0.0106 | 0.0965 | 0.0811 | 5.8000e-004 | | 7.3300e-003 | 7.3300e-003 | | 7.3300e-003 | 7.3300e-003 | 0.0000 | 105.0423 | 105.0423 | 2.0100e-003 | 1.9300e-003 | 105.6815 |
| Medical Office Building | 1.39338e+007 | 0.0751 | 0.6830 | 0.5738 | 4.1000e-003 | | 0.0519 | 0.0519 | | 0.0519 | 0.0519 | 0.0000 | 743.5612 | 743.5612 | 0.0143 | 0.0136 | 748.0863 |
| Mobile Home Park | 7.64354e+006 | 0.0412 | 0.3522 | 0.1499 | 2.2500e-003 | | 0.0285 | 0.0285 | | 0.0285 | 0.0285 | 0.0000 | 407.8884 | 407.8884 | 7.8200e-003 | 7.4800e-003 | 410.3708 |
| Motel | 9.74617e+006 | 0.0526 | 0.4778 | 0.4013 | 2.8700e-003 | | 0.0363 | 0.0363 | | 0.0363 | 0.0363 | 0.0000 | 520.0929 | 520.0929 | 9.9700e-003 | 9.5400e-003 | 523.2581 |
| Movie Theater (No Matinee) | 2.16427e+006 | 0.0117 | 0.1061 | 0.0891 | 6.4000e-004 | | 8.0600e-003 | 8.0600e-003 | | 8.0600e-003 | 8.0600e-003 | 0.0000 | 115.4937 | 115.4937 | 2.2100e-003 | 2.1200e-003 | 116.1966 |

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|-----------------------------|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Place of Worship | 1.13065e+007 | 0.0610 | 0.5542 | 0.4656 | 3.3300e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | 0.0000 | 603.3562 | 603.3562 | 0.0116 | 0.0111 | 607.0281 |
| Quality Restaurant | 4.07026e+007 | 0.2195 | 1.9952 | 1.6760 | 0.0120 | | 0.1516 | 0.1516 | | 0.1516 | 0.1516 | 0.0000 | 2,172.0441 | 2,172.0441 | 0.0416 | 0.0398 | 2,185.2628 |
| Regional Shopping Center | 3.45635e+006 | 0.0186 | 0.1694 | 0.1423 | 1.0200e-003 | | 0.0129 | 0.0129 | | 0.0129 | 0.0129 | 0.0000 | 184.4441 | 184.4441 | 3.5400e-003 | 3.3800e-003 | 185.5666 |
| Research & Development | 1.76864e+006 | 9.5400e-003 | 0.0867 | 0.0728 | 5.2000e-004 | | 6.5900e-003 | 6.5900e-003 | | 6.5900e-003 | 6.5900e-003 | 0.0000 | 94.3812 | 94.3812 | 1.8100e-003 | 1.7300e-003 | 94.9556 |
| Retirement Community | 5.06405e+006 | 0.0273 | 0.2333 | 0.0993 | 1.4900e-003 | | 0.0189 | 0.0189 | | 0.0189 | 0.0189 | 0.0000 | 270.2372 | 270.2372 | 5.1800e-003 | 4.9500e-003 | 271.8819 |
| Single Family Housing | 4.90904e+008 | 2.6470 | 22.6201 | 9.6256 | 0.1444 | | 1.8289 | 1.8289 | | 1.8289 | 1.8289 | 0.0000 | 26,196.5051 | 26,196.5051 | 0.5021 | 0.4803 | 26,355.9327 |
| Strip Mall | 1.16153e+007 | 0.0626 | 0.5694 | 0.4783 | 3.4200e-003 | | 0.0433 | 0.0433 | | 0.0433 | 0.0433 | 0.0000 | 619.8387 | 619.8387 | 0.0119 | 0.0114 | 623.6110 |
| Unrefrigerated Warehouse-No | 811215 | 4.3700e-003 | 0.0398 | 0.0334 | 2.4000e-004 | | 3.0200e-003 | 3.0200e-003 | | 3.0200e-003 | 3.0200e-003 | 0.0000 | 43.2895 | 43.2895 | 8.3000e-004 | 7.9000e-004 | 43.5530 |
| Total | | 8.4516 | 73.9734 | 43.5745 | 0.4610 | | 5.8392 | 5.8392 | | 5.8392 | 5.8392 | 0.0000 | 83,641.2090 | 83,641.2090 | 1.6031 | 1.5334 | 84,150.2354 |

5.3 Energy by Land Use - Electricity

Unmitigated

| Land Use | Electricity Use kWh/yr | Total CO2 MT/yr | CH4 MT/yr | N2O MT/yr | CO2e MT/yr |
|-------------------------------------|------------------------|-----------------|-------------|-------------|-------------|
| Apartments High Rise | 1.554e+007 | 4,447.0273 | 0.2044 | 0.0423 | 4,464.4308 |
| Apartments Low Rise | 3.98657e+007 | 11,408.2361 | 0.5244 | 0.1085 | 11,452.8825 |
| Apartments Mid Rise | 5.99056e+006 | 1,714.3006 | 0.0788 | 0.0163 | 1,721.0096 |
| Automobile Care Center | 2.26057e+006 | 646.8991 | 0.0297 | 6.1500e-003 | 649.4308 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 7.90802e+007 | 22,630.1304 | 1.0402 | 0.2152 | 22,718.6938 |
| Congregate Care (Assisted Living) | 1.50634e+006 | 431.0640 | 0.0198 | 4.1000e-003 | 432.7510 |
| Day-Care Center | 538766 | 154.1769 | 7.0900e-003 | 1.4700e-003 | 154.7803 |
| Elementary School | 3.80299e+006 | 1,088.2911 | 0.0500 | 0.0104 | 1,092.5501 |
| Fast Food Restaurant w/o Drive-Thru | 319753 | 91.5027 | 4.2100e-003 | 8.7000e-004 | 91.8608 |
| General Light Industry | 7.15101e+006 | 2,046.3827 | 0.0941 | 0.0195 | 2,054.3913 |
| General Office Building | 1.83904e+008 | 52,627.3227 | 2.4191 | 0.5005 | 52,833.2807 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8581e+006 | 1,390.2277 | 0.0639 | 0.0132 | 1,395.6684 |
| Government Office Building | 996556 | 285.1813 | 0.0131 | 2.7100e-003 | 286.2974 |
| Health Club | 1.21635e+006 | 348.0801 | 0.0160 | 3.3100e-003 | 349.4424 |
| Hospital | 2.35459e+007 | 6,738.0502 | 0.3097 | 0.0641 | 6,764.4197 |
| Hotel | 7.12023e+007 | 20,375.7422 | 0.9366 | 0.1938 | 20,455.4830 |
| Junior High School | 4.23641e+006 | 1,212.3208 | 0.0557 | 0.0115 | 1,217.0652 |

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|-----------------------------|--------------|---------------------|---------------|---------------|---------------------|
| Library | 840489 | 240.5201 | 0.0111 | 2.2900e-003 | 241.4614 |
| Medical Office Building | 2.26951e+007 | 6,494.5891 | 0.2985 | 0.0618 | 6,520.0058 |
| Mobile Home Park | 1.9698e+006 | 563.6912 | 0.0259 | 5.3600e-003 | 565.8972 |
| Motel | 2.7492e+006 | 786.7300 | 0.0362 | 7.4800e-003 | 789.8089 |
| Movie Theater (No Matinee) | 924116 | 264.4513 | 0.0122 | 2.5200e-003 | 265.4862 |
| Place of Worship | 4.82772e+006 | 1,381.5323 | 0.0635 | 0.0131 | 1,386.9389 |
| Quality Restaurant | 6.07688e+006 | 1,739.0014 | 0.0799 | 0.0165 | 1,745.8070 |
| Regional Shopping Center | 2.15811e+007 | 6,175.8020 | 0.2839 | 0.0587 | 6,199.9711 |
| Research & Development | 755185 | 216.1090 | 9.9300e-003 | 2.0600e-003 | 216.9548 |
| Retirement Community | 1.38388e+006 | 396.0211 | 0.0182 | 3.7700e-003 | 397.5709 |
| Single Family Housing | 1.20496e+008 | 34,481.9746 | 1.5850 | 0.3279 | 34,616.9204 |
| Strip Mall | 7.2525e+007 | 20,754.2661 | 0.9540 | 0.1974 | 20,835.4883 |
| Unrefrigerated Warehouse-No | 881926 | 252.3780 | 0.0116 | 2.4000e-003 | 253.3657 |
| Total | | 201,382.0020 | 9.2569 | 1.9152 | 202,170.1143 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments High Rise | 1.554e+007 | 4,447.0273 | 0.2044 | 0.0423 | 4,464.4308 |
| Apartments Low Rise | 3.98657e+007 | 11,408.2361 | 0.5244 | 0.1085 | 11,452.8825 |
| Apartments Mid Rise | 5.99056e+006 | 1,714.3006 | 0.0788 | 0.0163 | 1,721.0096 |
| Automobile Care Center | 2.26057e+006 | 646.8991 | 0.0297 | 6.1500e-003 | 649.4308 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 7.90802e+007 | 22,630.1304 | 1.0402 | 0.2152 | 22,718.6938 |
| Congregate Care (Assisted Living) | 1.50634e+006 | 431.0640 | 0.0198 | 4.1000e-003 | 432.7510 |
| Day-Care Center | 538766 | 154.1769 | 7.0900e-003 | 1.4700e-003 | 154.7803 |
| Elementary School | 3.80299e+006 | 1,088.2911 | 0.0500 | 0.0104 | 1,092.5501 |
| Fast Food Restaurant w/o Drive-Thru | 319753 | 91.5027 | 4.2100e-003 | 8.7000e-004 | 91.8608 |
| General Light Industry | 7.15101e+006 | 2,046.3827 | 0.0941 | 0.0195 | 2,054.3913 |
| General Office Building | 1.83904e+008 | 52,627.3227 | 2.4191 | 0.5005 | 52,833.2807 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 4.8581e+006 | 1,390.2277 | 0.0639 | 0.0132 | 1,395.6684 |

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|-----------------------------|--------------|---------------------|---------------|---------------|---------------------|
| Government Office Building | 996556 | 285.1813 | 0.0131 | 2.7100e-003 | 286.2974 |
| Health Club | 1.21635e+006 | 348.0801 | 0.0160 | 3.3100e-003 | 349.4424 |
| Hospital | 2.35459e+007 | 6,738.0502 | 0.3097 | 0.0641 | 6,764.4197 |
| Hotel | 7.12023e+007 | 20,375.7422 | 0.9366 | 0.1938 | 20,455.4830 |
| Junior High School | 4.23641e+006 | 1,212.3208 | 0.0557 | 0.0115 | 1,217.0652 |
| Library | 840489 | 240.5201 | 0.0111 | 2.2900e-003 | 241.4614 |
| Medical Office Building | 2.26951e+007 | 6,494.5891 | 0.2985 | 0.0618 | 6,520.0058 |
| Mobile Home Park | 1.9698e+006 | 563.6912 | 0.0259 | 5.3600e-003 | 565.8972 |
| Motel | 2.7492e+006 | 786.7300 | 0.0362 | 7.4800e-003 | 789.8089 |
| Movie Theater (No Matinee) | 924116 | 264.4513 | 0.0122 | 2.5200e-003 | 265.4862 |
| Place of Worship | 4.82772e+006 | 1,381.5323 | 0.0635 | 0.0131 | 1,386.9389 |
| Quality Restaurant | 6.07688e+006 | 1,739.0014 | 0.0799 | 0.0165 | 1,745.8070 |
| Regional Shopping Center | 2.15811e+007 | 6,175.8020 | 0.2839 | 0.0587 | 6,199.9711 |
| Research & Development | 755185 | 216.1090 | 9.9300e-003 | 2.0600e-003 | 216.9548 |
| Retirement Community | 1.38388e+006 | 396.0211 | 0.0182 | 3.7700e-003 | 397.5709 |
| Single Family Housing | 1.20496e+008 | 34,481.9746 | 1.5850 | 0.3279 | 34,616.9204 |
| Strip Mall | 7.2525e+007 | 20,754.2661 | 0.9540 | 0.1974 | 20,835.4883 |
| Unrefrigerated Warehouse-No | 881926 | 252.3780 | 0.0116 | 2.4000e-003 | 253.3657 |
| Total | | 201,382.0020 | 9.2569 | 1.9152 | 202,170.1143 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------|--------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |
| Unmitigated | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

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| SubCategory | tons/yr | | | | | | | | MT/yr | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Architectural Coating | 116.3389 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 524.0725 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 30.1484 | 0.3367 | 32.7360 | 0.0000 | | 4.8226 | 4.8226 | | 4.8190 | 4.8190 | 399.4006 | 4,902.2556 | 5,301.6562 | 0.0940 | 0.1251 | 5,342.4153 |
| Landscaping | 16.5526 | 6.3712 | 552.3637 | 0.0293 | | 3.0727 | 3.0727 | | 3.0727 | 3.0727 | 0.0000 | 905.6499 | 905.6499 | 0.8640 | 0.0000 | 923.7948 |
| Total | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | tons/yr | | | | | | | | MT/yr | | | | | | | |
| Architectural Coating | 116.3389 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 524.0725 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 30.1484 | 0.3367 | 32.7360 | 0.0000 | | 4.8226 | 4.8226 | | 4.8190 | 4.8190 | 399.4006 | 4,902.2556 | 5,301.6562 | 0.0940 | 0.1251 | 5,342.4153 |
| Landscaping | 16.5526 | 6.3712 | 552.3637 | 0.0293 | | 3.0727 | 3.0727 | | 3.0727 | 3.0727 | 0.0000 | 905.6499 | 905.6499 | 0.8640 | 0.0000 | 923.7948 |
| Total | 687.1124 | 6.7078 | 585.0998 | 0.0293 | | 7.8953 | 7.8953 | | 7.8917 | 7.8917 | 399.4006 | 5,807.9055 | 6,207.3061 | 0.9580 | 0.1251 | 6,266.2101 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|--------|--------|-------------|
| Category | MT/yr | | | |
| Mitigated | 28,957.6141 | 7.8101 | 4.4218 | 30,492.3722 |
| Unmitigated | 28,957.6141 | 7.8461 | 4.4292 | 30,495.4328 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------|--------------------|-----------|--------|--------|--------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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| | | | | | |
|-------------------------------------|-------------------|--------------------|---------------|---------------|--------------------|
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 793.953 | 2,524.2264 | 0.1160 | 0.0240 | 2,534.1050 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2030.8 / 507.699 | 9,899.7462 | 2.8950 | 1.6498 | 10,471.9853 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3391.65 / 847.912 | 16,533.6415 | 4.8350 | 2.7554 | 17,489.3424 |
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 28,957.6141 | 7.8461 | 4.4292 | 30,495.4328 |

Mitigated

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| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-------------|--------|--------|-------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Low Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Apartments Mid Rise | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Automobile Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| City Park | 0 / 793.953 | 2,524.2264 | 0.1160 | 0.0240 | 2,534.1050 |
| Condo/Townhouse | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Congregate Care (Assisted Living) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Day-Care Center | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Elementary School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Fast Food Restaurant w/o Drive-Thru | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Light Industry | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Golf Course | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Health Club | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hospital | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Junior High School | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Library | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Medical Office Building | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile Home Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Motel | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Movie Theater (No Matinee) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Place of Worship | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Quality Restaurant | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Regional Shopping Center | 2030.8 / 507.699 | 9,899.7462 | 2.8816 | 1.6470 | 10,470.8391 |
| Research & Development | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3391.65 / 847.912 | 16,533.6415 | 4.8125 | 2.7507 | 17,487.4281 |

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| | | | | | |
|-----------------------------|-------|-------------------|---------------|---------------|------------------|
| Strip Mall | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 28,957.614 | 7.8101 | 4.4218 | 30,492.37 |
| | | 1 | | | 22 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-------------|------------|--------|--------------|
| | MT/yr | | | |
| Unmitigated | 81,206.8418 | 4,799.1869 | 0.0000 | 181,989.7660 |
| Mitigated | 81,206.8418 | 4,799.1869 | 0.0000 | 181,989.7660 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-------------|------------|--------|-------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 9970.23 | 2,023.8671 | 119.6071 | 0.0000 | 4,535.6165 |
| Apartments Low Rise | 24710.2 | 5,015.9463 | 296.4339 | 0.0000 | 11,241.0590 |
| Apartments Mid Rise | 3843.46 | 780.1878 | 46.1078 | 0.0000 | 1,748.4512 |
| Automobile Care Center | 1393.04 | 282.7739 | 16.7115 | 0.0000 | 633.7146 |
| City Park | 25.9047 | 5.2584 | 0.3108 | 0.0000 | 11.7845 |
| Condo/Townhouse | 40813.9 | 8,284.8518 | 489.6207 | 0.0000 | 18,566.8868 |
| Congregate Care (Assisted Living) | 966.445 | 196.1796 | 11.5939 | 0.0000 | 439.6512 |
| Day-Care Center | 99.6054 | 20.2190 | 1.1949 | 0.0000 | 45.3121 |
| Elementary School | 1201.4 | 243.8728 | 14.4125 | 0.0000 | 546.5347 |
| Fast Food Restaurant w/o Drive-Thru | 7.41862 | 1.5059 | 0.0890 | 0.0000 | 3.3749 |
| General Light Industry | 2005.61 | 407.1209 | 24.0602 | 0.0000 | 912.3842 |
| General Office Building | 180490 | 36,637.8282 | 2,165.2336 | 0.0000 | 82,107.7341 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 397.325 | 80.6535 | 4.7665 | 0.0000 | 180.7497 |

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| | | | | | |
|-----------------------------|---------|--------------------|-------------------|---------------|---------------------|
| Government Office Building | 978.054 | 198.5361 | 11.7332 | 0.0000 | 444.9323 |
| Health Club | 168.17 | 34.1370 | 2.0174 | 0.0000 | 76.5032 |
| Hospital | 21956.1 | 4,456.8899 | 263.3946 | 0.0000 | 9,988.1774 |
| Hotel | 3547.8 | 720.1713 | 42.5609 | 0.0000 | 1,613.9504 |
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 116.204 | 23.5884 | 1.3940 | 0.0000 | 52.8630 |
| Medical Office Building | 22273.8 | 4,521.3708 | 267.2054 | 0.0000 | 10,132.6834 |
| Mobile Home Park | 886.094 | 179.8691 | 10.6300 | 0.0000 | 403.0982 |
| Motel | 101.47 | 20.5975 | 1.2173 | 0.0000 | 46.1603 |
| Place of Worship | 667.466 | 135.4895 | 8.0072 | 0.0000 | 303.6407 |
| Quality Restaurant | 140.99 | 28.6198 | 1.6914 | 0.0000 | 64.1388 |
| Regional Shopping Center | 9600.23 | 1,948.7592 | 115.1684 | 0.0000 | 4,367.2949 |
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 714.232 | 144.9826 | 8.5682 | 0.0000 | 324.9154 |
| Single Family Housing | 37934.6 | 7,700.3905 | 455.0800 | 0.0000 | 17,257.0715 |
| Strip Mall | 32262.3 | 6,548.9578 | 387.0323 | 0.0000 | 14,676.6365 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 81,206.8418 | 4,799.1869 | 0.0000 | 181,989.7660 |

Mitigated

| Land Use | Waste Disposed tons | Total CO2 MT/yr | CH4 MT/yr | N2O MT/yr | CO2e MT/yr |
|-------------------------------------|------------------------|--------------------|--------------|--------------|---------------|
| Apartments High Rise | 9970.23 | 2,023.8671 | 119.6071 | 0.0000 | 4,535.6165 |
| Apartments Low Rise | 24710.2 | 5,015.9463 | 296.4339 | 0.0000 | 11,241.0590 |
| Apartments Mid Rise | 3843.46 | 780.1878 | 46.1078 | 0.0000 | 1,748.4512 |
| Automobile Care Center | 1393.04 | 282.7739 | 16.7115 | 0.0000 | 633.7146 |
| City Park | 25.9047 | 5.2584 | 0.3108 | 0.0000 | 11.7845 |
| Condo/Townhouse | 40813.9 | 8,284.8518 | 489.6207 | 0.0000 | 18,566.8868 |
| Congregate Care (Assisted Living) | 966.445 | 196.1796 | 11.5939 | 0.0000 | 439.6512 |
| Day-Care Center | 99.6054 | 20.2190 | 1.1949 | 0.0000 | 45.3121 |
| Elementary School | 1201.4 | 243.8728 | 14.4125 | 0.0000 | 546.5347 |
| Fast Food Restaurant w/o Drive-Thru | 7.41862 | 1.5059 | 0.0890 | 0.0000 | 3.3749 |

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| | | | | | |
|-----------------------------|---------|-------------------------|------------------------|---------------|--------------------------|
| General Light Industry | 2005.61 | 407.1209 | 24.0602 | 0.0000 | 912.3842 |
| General Office Building | 180490 | 36,637.828 2 | 2,165.233 6 | 0.0000 | 82,107.73 41 |
| Golf Course | 65.8368 | 13.3643 | 0.7898 | 0.0000 | 29.9502 |
| Government (Civic Center) | 397.325 | 80.6535 | 4.7665 | 0.0000 | 180.7497 |
| Government Office Building | 978.054 | 198.5361 | 11.7332 | 0.0000 | 444.9323 |
| Health Club | 168.17 | 34.1370 | 2.0174 | 0.0000 | 76.5032 |
| Hospital | 21956.1 | 4,456.8899 | 263.3946 | 0.0000 | 9,988.177 4 |
| Hotel | 3547.8 | 720.1713 | 42.5609 | 0.0000 | 1,613.950 4 |
| Junior High School | 951.737 | 193.1941 | 11.4174 | 0.0000 | 432.9605 |
| Library | 116.204 | 23.5884 | 1.3940 | 0.0000 | 52.8630 |
| Medical Office Building | 22273.8 | 4,521.3708 | 267.2054 | 0.0000 | 10,132.68 34 |
| Mobile Home Park | 886.094 | 179.8691 | 10.6300 | 0.0000 | 403.0982 |
| Motel | 101.47 | 20.5975 | 1.2173 | 0.0000 | 46.1603 |
| Place of Worship | 667.466 | 135.4895 | 8.0072 | 0.0000 | 303.6407 |
| Quality Restaurant | 140.99 | 28.6198 | 1.6914 | 0.0000 | 64.1388 |
| Regional Shopping Center | 9600.23 | 1,948.7592 | 115.1684 | 0.0000 | 4,367.294 9 |
| Research & Development | 1252.92 | 254.3316 | 15.0306 | 0.0000 | 569.9736 |
| Retirement Community | 714.232 | 144.9826 | 8.5682 | 0.0000 | 324.9154 |
| Single Family Housing | 37934.6 | 7,700.3905 | 455.0800 | 0.0000 | 17,257.07 15 |
| Strip Mall | 32262.3 | 6,548.9578 | 387.0323 | 0.0000 | 14,676.63 65 |
| Unrefrigerated Warehouse-No | 509.022 | 103.3270 | 6.1065 | 0.0000 | 231.5624 |
| Total | | 81,206.841 8 | 4,799.186 9 | 0.0000 | 181,989.7 660 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

NewportBeachProject2035 Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,773.64 | 1000sqft | 270.28 | 11,773,643.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,583.00 | Student | 12.63 | 550,360.99 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 4,860.00 | Room | 162.00 | 7,056,720.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 4,467.00 | Dwelling Unit | 72.05 | 4,467,000.00 | 12776 |
| Apartments Low Rise | 11,071.00 | Dwelling Unit | 691.94 | 11,071,000.00 | 31663 |
| Apartments Mid Rise | 1,722.00 | Dwelling Unit | 45.32 | 1,722,000.00 | 4925 |
| Condo/Townhouse | 18,286.00 | Dwelling Unit | 1,142.88 | 18,286,000.00 | 52298 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,996.00 | Dwelling Unit | 5,518.18 | 30,592,800.00 | 48609 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,686.03 | 1000sqft | 38.71 | 1,686,025.00 | 0 |
| Strip Mall | 5,666.02 | 1000sqft | 130.07 | 5,666,019.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | Operational Year | | 2035 | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

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- Land Use -
- Construction Phase - 2006 GP
- Off-road Equipment - operational model run
- Trips and VMT - operational model run
- Architectural Coating - operational model run
- Vehicle Trips - operational model run
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_ Exterior | 38,831,815.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_ Interior | 116,495,444.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_ Exterior | 45,473,535.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_ Interior | 136,420,605.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 3,796.95 | 4,467.00 |
| tblFireplaces | NumberGas | 9,410.35 | 3,536.99 |
| tblFireplaces | NumberGas | 1,463.70 | 1,529.06 |
| tblFireplaces | NumberGas | 15,543.10 | 6,759.36 |
| tblFireplaces | NumberGas | 368.05 | -228.00 |
| tblFireplaces | NumberGas | 337.45 | -203.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,446.60 | 4,390.49 |
| tblFireplaces | NumberNoFireplace | 446.70 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,107.10 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 172.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,828.60 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,699.60 | 12,405.42 |
| tblFireplaces | NumberWood | 223.35 | 0.00 |
| tblFireplaces | NumberWood | 553.55 | 119.59 |
| tblFireplaces | NumberWood | 86.10 | 3.06 |
| tblFireplaces | NumberWood | 914.30 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 849.80 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,773,600.00 | 11,773,643.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |

NewportBeachProject2035
Orange County, Summer

| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 1,686,030.00 | 1,686,025.00 |
| tblLandUse | LandUseSquareFeet | 5,666,020.00 | 5,666,019.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 2,054.82 | 9,970.23 |
| tblSolidWaste | SolidWasteGenerationRate | 5,092.66 | 24,710.20 |
| tblSolidWaste | SolidWasteGenerationRate | 792.12 | 3,843.46 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,411.56 | 40,813.89 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,201.40 | 1,201.40 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,949.45 | 180,489.95 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 2,660.85 | 3,547.80 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,770.33 | 9,600.23 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,929.69 | 37,934.65 |
| tblSolidWaste | SolidWasteGenerationRate | 5,949.32 | 32,262.31 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,577.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

NewportBeachProject2035
Orange County, Summer

| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

NewportBeachProject2035
Orange County, Summer

| | | | |
|----------|-------------------------------------|------------------|------------------|
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | IndoorWaterUseRate | 291,043,032.45 | 0.00 |
| tbiWater | IndoorWaterUseRate | 721,320,217.65 | 0.00 |
| tbiWater | IndoorWaterUseRate | 112,195,232.12 | 0.00 |
| tbiWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,191,406,512.51 | 0.00 |
| tbiWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 15,958,771.92 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tbiWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,092,566,055.38 | 0.00 |
| tbiWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tbiWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tbiWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tbiWater | IndoorWaterUseRate | 123,282,502.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tbiWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tbiWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tbiWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tbiWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tbiWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tbiWater | IndoorWaterUseRate | 124,888,493.40 | 2,030,796,655.00 |
| tbiWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tbiWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,107,357,819.46 | 3,391,648,953.00 |
| tbiWater | IndoorWaterUseRate | 419,696,388.18 | 0.00 |
| tbiWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 183,483,650.89 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 454,745,354.61 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 70,731,776.77 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 14,107,158.58 | 0.00 |

NewportBeachProject2035
Orange County, Summer

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|----------|---------------------|------------------|----------------|
| tblWater | OutdoorWaterUseRate | 342,944,076.87 | 793,953,130.00 |
| tblWater | OutdoorWaterUseRate | 751,104,105.72 | 0.00 |
| tblWater | OutdoorWaterUseRate | 17,785,632.60 | 0.00 |
| tblWater | OutdoorWaterUseRate | 8,599,113.20 | 0.00 |
| tblWater | OutdoorWaterUseRate | 41,036,842.08 | 0.00 |
| tblWater | OutdoorWaterUseRate | 157,514.62 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,282,540,485.55 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,869,534.66 | 0.00 |
| tblWater | OutdoorWaterUseRate | 7,768,234.55 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,771,821.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,231,829.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 13,698,055.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,451,497.06 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,727,037.53 | 0.00 |
| tblWater | OutdoorWaterUseRate | 16,306,919.50 | 0.00 |
| tblWater | OutdoorWaterUseRate | 391,775.67 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,563,734.01 | 0.00 |
| tblWater | OutdoorWaterUseRate | 25,569,681.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,993,552.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 76,544,560.47 | 507,699,164.00 |
| tblWater | OutdoorWaterUseRate | 13,144,116.47 | 0.00 |
| tblWater | OutdoorWaterUseRate | 698,116,886.18 | 847,912,238.00 |
| tblWater | OutdoorWaterUseRate | 257,233,270.17 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

NewportBeachProject2035
Orange County, Summer

| | | | |
|---------------|--------------------|--------|------|
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 223.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 553.55 | 0.00 |
| tblWoodstoves | NumberCatalytic | 86.10 | 0.00 |
| tblWoodstoves | NumberCatalytic | 914.30 | 0.00 |
| tblWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 849.80 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 223.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 553.55 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 86.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 914.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 849.80 | 0.00 |

NewportBeachProject2035
Orange County, Summer

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Energy | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| Mobile | 1,853.3728 | 3,327.3628 | 18,111.6872 | 88.0160 | 6,080.0934 | 94.4448 | 6,174.5383 | 1,623.5635 | 87.2440 | 1,710.8075 | | 6,134,481.7246 | 6,134,481.7246 | 164.7661 | | 6,137,941.8120 |
| Total | 7,953.0800 | 3,810.6013 | 25,388.2440 | 90.7762 | 6,080.0934 | 536.8285 | 6,616.9219 | 1,623.5635 | 529.3394 | 2,152.9029 | 35,221.1059 | 7,079,971.2170 | 7,115,192.3229 | 190.3544 | 20.2953 | 7,125,481.3086 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Energy | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| Mobile | 1,853.3728 | 3,327.3628 | 18,111.6872 | 88.0160 | 6,080.0934 | 94.4448 | 6,174.5383 | 1,623.5635 | 87.2440 | 1,710.8075 | | 6,134,481.7246 | 6,134,481.7246 | 164.7661 | | 6,137,941.8120 |
| Total | 7,953.0800 | 3,810.6013 | 25,388.2440 | 90.7762 | 6,080.0934 | 536.8285 | 6,616.9219 | 1,623.5635 | 529.3394 | 2,152.9029 | 35,221.1059 | 7,079,971.2170 | 7,115,192.3229 | 190.3544 | 20.2953 | 7,125,481.3086 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NewportBeachProject2035 Orange County, Summer

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|----------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,853.3728 | 3,327.3628 | 18,111.6872 | 88.0160 | 6,080.0934 | 94.4448 | 6,174.5383 | 1,623.5635 | 87.2440 | 1,710.8075 | | 6,134,481.7246 | 6,134,481.7246 | 164.7661 | | 6,137,941.8120 |
| Unmitigated | 1,853.3728 | 3,327.3628 | 18,111.6872 | 88.0160 | 6,080.0934 | 94.4448 | 6,174.5383 | 1,623.5635 | 87.2440 | 1,710.8075 | | 6,134,481.7246 | 6,134,481.7246 | 164.7661 | | 6,137,941.8120 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 29,437.53 | 31,983.72 | 27,114.69 | 90,377,945 | 90,377,945 |
| Apartments Low Rise | 72,957.89 | 79,268.36 | 67,200.97 | 223,992,441 | 223,992,441 |
| Apartments Mid Rise | 11,347.98 | 12,329.52 | 10,452.54 | 34,840,121 | 34,840,121 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15,168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 120,504.74 | 130,927.76 | 110,996.02 | 369,968,908 | 369,968,908 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1,056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,492.07 | 0.00 | 0.00 | 14,536,679 | 14,536,679 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4,065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 129,627.78 | 27,903.53 | 11,538.17 | 277,526,704 | 277,526,704 |
| Golf Course | 3,686.86 | 4,257.45 | 4,301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 8,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3,518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14,387.19 | 58,222,060 | 58,222,060 |
| Hotel | 39,706.20 | 39,803.40 | 28,917.00 | 89,076,762 | 89,076,762 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2,318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2,252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1,730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8,001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 19,138.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11,149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 72,398.13 | 84,250.92 | 42,555.40 | 151,639,822 | 151,639,822 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 162,651.72 | 171,319.68 | 149,054.92 | 496,666,811 | 496,666,811 |
| Strip Mall | 251,118.01 | 238,199.48 | 115,756.79 | 438,108,846 | 438,108,846 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,074,736.90 | 912,604.16 | 654,393.72 | 2,520,535,293 | 2,520,535,293 |

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4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

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5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| NaturalGas Unmitigated | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 334143 | 3.6035 | 30.7936 | 13.1036 | 0.1966 | | 2.4897 | 2.4897 | | 2.4897 | 2.4897 | | 39,310.9175 | 39,310.9175 | 0.7535 | 0.7207 | 39,550.1572 |
| Apartments Mid Rise | 40638.3 | 0.4383 | 3.7451 | 1.5937 | 0.0239 | | 0.3028 | 0.3028 | | 0.3028 | 0.3028 | | 4,780.9714 | 4,780.9714 | 0.0916 | 0.0877 | 4,810.0675 |
| Automobile Care Center | 14504.7 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 792819 | 8.5500 | 73.0637 | 31.0910 | 0.4664 | | 5.9073 | 5.9073 | | 5.9073 | 5.9073 | | 93,272.8634 | 93,272.8634 | 1.7877 | 1.7100 | 93,840.5065 |
| Congregate Care (Assisted Living) | 10218.6 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2650.95 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18712.3 | 0.2018 | 1.8345 | 1.5410 | 0.0110 | | 0.1394 | 0.1394 | | 0.1394 | 0.1394 | | 2,201.4440 | 2,201.4440 | 0.0422 | 0.0404 | 2,214.8416 |
| Apartments High Rise | 105419 | 1.1369 | 9.7151 | 4.1341 | 0.0620 | | 0.7855 | 0.7855 | | 0.7855 | 0.7855 | | 12,402.2062 | 12,402.2062 | 0.2377 | 0.2274 | 12,477.6839 |
| Fast Food Restaurant w/o Drive-Thru | 5867.63 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45883.9 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 309340 | 3.3360 | 30.3275 | 25.4751 | 0.1820 | | 2.3049 | 2.3049 | | 2.3049 | 2.3049 | | 36,392.9851 | 36,392.9851 | 0.6975 | 0.6672 | 36,614.4668 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8171.68 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1676.28 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7804.63 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |

NewportBeachProject2035
Orange County, Summer

| | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|--------------------|--------------------|---------------|---------------|---------------------|
| Hotel | 691559 | 7.4580 | 67.7999 | 56.9519 | 0.4068 | | 5.1528 | 5.1528 | | 5.1528 | 5.1528 | | 81,359.8306 | 81,359.8306 | 1.5594 | 1.4916 | 81,854.9730 |
| Junior High School | 20844.9 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5392.93 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38174.8 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20941.2 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26701.8 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5929.51 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30976.6 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9469.46 | 0.1021 | 0.9284 | 0.7798 | 5.5700e-003 | | 0.0706 | 0.0706 | | 0.0706 | 0.0706 | | 1,114.0536 | 1,114.0536 | 0.0214 | 0.0204 | 1,120.8335 |
| Research & Development | 4845.58 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13874.1 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1.34494e+006 | 14.5043 | 123.9457 | 52.7428 | 0.7911 | | 10.0211 | 10.0211 | | 10.0211 | 10.0211 | | 158,228.5144 | 158,228.5144 | 3.0327 | 2.9009 | 159,191.4668 |
| Strip Mall | 31822.8 | 0.3432 | 3.1199 | 2.6207 | 0.0187 | | 0.2371 | 0.2371 | | 0.2371 | 0.2371 | | 3,743.8643 | 3,743.8643 | 0.0718 | 0.0686 | 3,766.6488 |
| Unrefrigerated Warehouse-No | 2222.51 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.060 | 505,198.060 | 9.6830 | 9.2620 | 508,272.6374 |

Mitigated

| Land Use | Natural Gas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 334.143 | 3.6035 | 30.7936 | 13.1036 | 0.1966 | | 2.4897 | 2.4897 | | 2.4897 | 2.4897 | | 39,310.9175 | 39,310.9175 | 0.7535 | 0.7207 | 39,550.1572 |
| Apartments Mid Rise | 40.6383 | 0.4383 | 3.7451 | 1.5937 | 0.0239 | | 0.3028 | 0.3028 | | 0.3028 | 0.3028 | | 4,780.9714 | 4,780.9714 | 0.0916 | 0.0877 | 4,810.0675 |
| Automobile Care Center | 14.5047 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 792.819 | 8.5500 | 73.0637 | 31.0910 | 0.4664 | | 5.9073 | 5.9073 | | 5.9073 | 5.9073 | | 93,272.8634 | 93,272.8634 | 1.7877 | 1.7100 | 93,840.5065 |
| Congregate Care (Assisted Living) | 10.2186 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2.65095 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18.7123 | 0.2018 | 1.8345 | 1.5410 | 0.0110 | | 0.1394 | 0.1394 | | 0.1394 | 0.1394 | | 2,201.4440 | 2,201.4440 | 0.0422 | 0.0404 | 2,214.8416 |
| Fast Food Restaurant w/o Drive-Thru | 5.86763 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| Apartments High Rise | 105.419 | 1.1369 | 9.7151 | 4.1341 | 0.0620 | | 0.7855 | 0.7855 | | 0.7855 | 0.7855 | | 12,402.2062 | 12,402.2062 | 0.2377 | 0.2274 | 12,477.6839 |
| General Light Industry | 45.8839 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 309.34 | 3.3360 | 30.3275 | 25.4751 | 0.1820 | | 2.3049 | 2.3049 | | 2.3049 | 2.3049 | | 36,392.9851 | 36,392.9851 | 0.6975 | 0.6672 | 36,614.4668 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

NewportBeachProject2035
Orange County, Summer

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|--------------------|---------------------|---------------|---------------|---------------------|
| Government (Civic Center) | 8.17168 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1.67628 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7.80463 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237.123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 691.559 | 7.4580 | 67.7999 | 56.9519 | 0.4068 | | 5.1528 | 5.1528 | | 5.1528 | 5.1528 | | 81,359.8306 | 81,359.8306 | 1.5594 | 1.4916 | 81,854.9730 |
| Junior High School | 20.8449 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5.39293 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38.1748 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20.9412 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26.7018 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5.92951 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30.9766 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111.514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9.46946 | 0.1021 | 0.9284 | 0.7798 | 5.5700e-003 | | 0.0706 | 0.0706 | | 0.0706 | 0.0706 | | 1,114.0536 | 1,114.0536 | 0.0214 | 0.0204 | 1,120.8335 |
| Research & Development | 4.84558 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13.8741 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1344.94 | 14.5043 | 123.9457 | 52.7428 | 0.7911 | | 10.0211 | 10.0211 | | 10.0211 | 10.0211 | | 158,228.5144 | 158,228.5144 | 3.0327 | 2.9009 | 159,191.4668 |
| Strip Mall | 31.8228 | 0.3432 | 3.1199 | 2.6207 | 0.0187 | | 0.2371 | 0.2371 | | 0.2371 | 0.2371 | | 3,743.8643 | 3,743.8643 | 0.0718 | 0.0686 | 3,766.6488 |
| Unrefrigerated Warehouse-No | 2.22251 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.060 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6374 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|---------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Unmitigated | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

NewportBeachProject2035 Orange County, Summer

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 637.4736 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,871.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,411.8730 | 26.9356 | 2,618.8825 | 0.0000 | | 385.8059 | 385.8059 | | 385.5177 | 385.5177 | 35,221.1059 | 432,304.9412 | 467,526.0471 | 8.2858 | 11.0333 | 471,120.3838 |
| Landscaping | 132.4205 | 50.9692 | 4,418.9099 | 0.2343 | | 24.5819 | 24.5819 | | 24.5819 | 24.5819 | | 7,986.4652 | 7,986.4652 | 7.6195 | | 8,146.4755 |
| Total | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 637.4736 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,871.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,411.8730 | 26.9356 | 2,618.8825 | 0.0000 | | 385.8059 | 385.8059 | | 385.5177 | 385.5177 | 35,221.1059 | 432,304.9412 | 467,526.0471 | 8.2858 | 11.0333 | 471,120.3838 |
| Landscaping | 132.4205 | 50.9692 | 4,418.9099 | 0.2343 | | 24.5819 | 24.5819 | | 24.5819 | 24.5819 | | 7,986.4652 | 7,986.4652 | 7.6195 | | 8,146.4755 |
| Total | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

NewportBeachProject2035 Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 11,773.64 | 1000sqft | 270.28 | 11,773,643.00 | 0 |
| Government (Civic Center) | 311.02 | 1000sqft | 7.14 | 311,018.00 | 0 |
| Government Office Building | 63.80 | 1000sqft | 1.46 | 63,800.00 | 0 |
| Hospital | 2,001.00 | Bed | 32.88 | 1,432,230.91 | 0 |
| Medical Office Building | 1,452.95 | 1000sqft | 33.36 | 1,452,952.00 | 0 |
| Research & Development | 81.73 | 1000sqft | 1.88 | 81,730.00 | 0 |
| Day-Care Center | 77.97 | 1000sqft | 1.79 | 77,969.00 | 0 |
| Elementary School | 6,583.00 | Student | 12.63 | 550,360.99 | 0 |
| Junior High School | 5,215.00 | Student | 14.07 | 613,084.18 | 0 |
| Library | 90.96 | 1000sqft | 2.09 | 90,962.00 | 0 |
| Place of Worship | 522.48 | 1000sqft | 11.99 | 522,480.00 | 0 |
| General Light Industry | 773.92 | 1000sqft | 17.77 | 773,919.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 196.42 | 1000sqft | 4.51 | 196,420.00 | 0 |
| City Park | 287.83 | Acre | 287.83 | 12,537,874.80 | 0 |
| Fast Food Restaurant w/o Drive Thru | 8.13 | 1000sqft | 0.19 | 8,130.00 | 0 |
| Golf Course | 731.52 | Acre | 731.52 | 31,865,011.20 | 0 |
| Health Club | 131.64 | 1000sqft | 3.02 | 131,640.00 | 0 |
| Hotel | 4,860.00 | Room | 162.00 | 7,056,720.00 | 0 |
| Motel | 139.00 | Room | 6.25 | 272,467.80 | 0 |
| Movie Theater (No Matinee) | 4,445.00 | Seat | 2.30 | 100,012.50 | 0 |
| Quality Restaurant | 154.51 | 1000sqft | 3.55 | 154,510.00 | 0 |
| Apartments High Rise | 4,467.00 | Dwelling Unit | 72.05 | 4,467,000.00 | 12776 |
| Apartments Low Rise | 11,071.00 | Dwelling Unit | 691.94 | 11,071,000.00 | 31663 |
| Apartments Mid Rise | 1,722.00 | Dwelling Unit | 45.32 | 1,722,000.00 | 4925 |
| Condo/Townhouse | 18,286.00 | Dwelling Unit | 1,142.88 | 18,286,000.00 | 52298 |
| Congregate Care (Assisted Living) | 433.00 | Dwelling Unit | 27.06 | 433,000.00 | 1238 |
| Mobile Home Park | 397.00 | Dwelling Unit | 50.01 | 476,400.00 | 1135 |
| Retirement Community | 320.00 | Dwelling Unit | 64.00 | 320,000.00 | 915 |
| Single Family Housing | 16,996.00 | Dwelling Unit | 5,518.18 | 30,592,800.00 | 48609 |
| Automobile Care Center | 244.65 | 1000sqft | 5.62 | 244,650.00 | 0 |
| Regional Shopping Center | 1,686.03 | 1000sqft | 38.71 | 1,686,025.00 | 0 |
| Strip Mall | 5,666.02 | 1000sqft | 130.07 | 5,666,019.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2035 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

NewportBeachProject2035
Orange County, Winter

- Land Use -
- Construction Phase - 2006 GP
- Off-road Equipment - operational model run
- Trips and VMT - operational model run
- Architectural Coating - operational model run
- Vehicle Trips - operational model run
- Woodstoves - No Wood Stoves
- Area Coating -
- Water And Wastewater - treated wastewater and digestion
- Solid Waste - from OC Waste & Recycling

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|----------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 38,831,815.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 116,495,444.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 45,473,535.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 136,420,605.00 | 0.00 |
| tblConstructionPhase | NumDays | 11,000.00 | 1.00 |
| tblFireplaces | NumberGas | 3,796.95 | 4,467.00 |
| tblFireplaces | NumberGas | 9,410.35 | 3,536.99 |
| tblFireplaces | NumberGas | 1,463.70 | 1,529.06 |
| tblFireplaces | NumberGas | 15,543.10 | 6,759.36 |
| tblFireplaces | NumberGas | 368.05 | -228.00 |
| tblFireplaces | NumberGas | 337.45 | -203.00 |
| tblFireplaces | NumberGas | 272.00 | 162.50 |
| tblFireplaces | NumberGas | 14,446.60 | 4,390.49 |
| tblFireplaces | NumberNoFireplace | 446.70 | 0.00 |
| tblFireplaces | NumberNoFireplace | 1,107.10 | 7,414.43 |
| tblFireplaces | NumberNoFireplace | 172.20 | 189.88 |
| tblFireplaces | NumberNoFireplace | 1,828.60 | 11,343.67 |
| tblFireplaces | NumberNoFireplace | 43.30 | 433.00 |
| tblFireplaces | NumberNoFireplace | 39.70 | 397.00 |
| tblFireplaces | NumberNoFireplace | 32.00 | 155.00 |
| tblFireplaces | NumberNoFireplace | 1,699.60 | 12,405.42 |
| tblFireplaces | NumberWood | 223.35 | 0.00 |
| tblFireplaces | NumberWood | 553.55 | 119.59 |
| tblFireplaces | NumberWood | 86.10 | 3.06 |
| tblFireplaces | NumberWood | 914.30 | 182.96 |
| tblFireplaces | NumberWood | 21.65 | 0.00 |
| tblFireplaces | NumberWood | 19.85 | 0.00 |
| tblFireplaces | NumberWood | 16.00 | 2.50 |
| tblFireplaces | NumberWood | 849.80 | 200.09 |
| tblLandUse | LandUseSquareFeet | 11,773,600.00 | 11,773,643.00 |
| tblLandUse | LandUseSquareFeet | 311,020.00 | 311,018.00 |
| tblLandUse | LandUseSquareFeet | 1,452,950.00 | 1,452,952.00 |
| tblLandUse | LandUseSquareFeet | 77,970.00 | 77,969.00 |
| tblLandUse | LandUseSquareFeet | 90,960.00 | 90,962.00 |
| tblLandUse | LandUseSquareFeet | 773,920.00 | 773,919.00 |

NewportBeachProject2035
Orange County, Winter

| | | | |
|---------------------------|----------------------------|--------------|--------------|
| tblLandUse | LandUseSquareFeet | 1,686,030.00 | 1,686,025.00 |
| tblLandUse | LandUseSquareFeet | 5,666,020.00 | 5,666,019.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2035 |
| tblSolidWaste | SolidWasteGenerationRate | 2,054.82 | 9,970.23 |
| tblSolidWaste | SolidWasteGenerationRate | 5,092.66 | 24,710.20 |
| tblSolidWaste | SolidWasteGenerationRate | 792.12 | 3,843.46 |
| tblSolidWaste | SolidWasteGenerationRate | 934.56 | 1,393.04 |
| tblSolidWaste | SolidWasteGenerationRate | 24.75 | 25.90 |
| tblSolidWaste | SolidWasteGenerationRate | 8,411.56 | 40,813.89 |
| tblSolidWaste | SolidWasteGenerationRate | 395.11 | 966.45 |
| tblSolidWaste | SolidWasteGenerationRate | 101.36 | 99.61 |
| tblSolidWaste | SolidWasteGenerationRate | 1,201.40 | 1,201.40 |
| tblSolidWaste | SolidWasteGenerationRate | 93.65 | 7.42 |
| tblSolidWaste | SolidWasteGenerationRate | 959.66 | 2,005.61 |
| tblSolidWaste | SolidWasteGenerationRate | 10,949.45 | 180,489.95 |
| tblSolidWaste | SolidWasteGenerationRate | 680.31 | 65.84 |
| tblSolidWaste | SolidWasteGenerationRate | 1,772.81 | 397.33 |
| tblSolidWaste | SolidWasteGenerationRate | 59.33 | 978.05 |
| tblSolidWaste | SolidWasteGenerationRate | 750.35 | 168.17 |
| tblSolidWaste | SolidWasteGenerationRate | 5,842.92 | 21,956.10 |
| tblSolidWaste | SolidWasteGenerationRate | 2,660.85 | 3,547.80 |
| tblSolidWaste | SolidWasteGenerationRate | 951.74 | 951.74 |
| tblSolidWaste | SolidWasteGenerationRate | 83.77 | 116.20 |
| tblSolidWaste | SolidWasteGenerationRate | 15,691.86 | 22,273.75 |
| tblSolidWaste | SolidWasteGenerationRate | 182.62 | 886.09 |
| tblSolidWaste | SolidWasteGenerationRate | 76.10 | 101.47 |
| tblSolidWaste | SolidWasteGenerationRate | 2,978.14 | 667.47 |
| tblSolidWaste | SolidWasteGenerationRate | 140.99 | 140.99 |
| tblSolidWaste | SolidWasteGenerationRate | 1,770.33 | 9,600.23 |
| tblSolidWaste | SolidWasteGenerationRate | 6.21 | 1,252.92 |
| tblSolidWaste | SolidWasteGenerationRate | 147.20 | 714.23 |
| tblSolidWaste | SolidWasteGenerationRate | 19,929.69 | 37,934.65 |
| tblSolidWaste | SolidWasteGenerationRate | 5,949.32 | 32,262.31 |
| tblSolidWaste | SolidWasteGenerationRate | 184.63 | 509.02 |
| tblTripsAndVMT | WorkerTripNumber | 12,577.00 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |

NewportBeachProject2035

Orange County, Winter

| | | | |
|-----------------|--------|-------|------|
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
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| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CC_TL | 8.40 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CNW_TL | 6.90 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
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| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |

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Orange County, Winter

| | | | |
|-----------------|----------------|-------|--------|
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | CW_TL | 16.60 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HO_TL | 8.70 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HS_TL | 5.90 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblVehicleTrips | HW_TL | 14.70 | 9.49 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |
| tblWater | AerobicPercent | 87.46 | 100.00 |

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Orange County, Winter

| | | | |
|----------|-------------------------------------|------------------|------------------|
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | AnaerobicandFacultativeLagoonsPerce | 2.21 | 0.00 |
| tbiWater | IndoorWaterUseRate | 291,043,032.45 | 0.00 |
| tbiWater | IndoorWaterUseRate | 721,320,217.65 | 0.00 |
| tbiWater | IndoorWaterUseRate | 112,195,232.12 | 0.00 |
| tbiWater | IndoorWaterUseRate | 23,016,942.94 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,191,406,512.51 | 0.00 |
| tbiWater | IndoorWaterUseRate | 28,211,693.09 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,344,099.58 | 0.00 |
| tbiWater | IndoorWaterUseRate | 15,958,771.92 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,467,729.08 | 0.00 |
| tbiWater | IndoorWaterUseRate | 178,969,000.00 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,092,566,055.38 | 0.00 |
| tbiWater | IndoorWaterUseRate | 61,787,135.50 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,674,487.96 | 0.00 |
| tbiWater | IndoorWaterUseRate | 7,785,603.48 | 0.00 |
| tbiWater | IndoorWaterUseRate | 179,717,104.39 | 0.00 |
| tbiWater | IndoorWaterUseRate | 123,282,502.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 12,642,411.60 | 0.00 |
| tbiWater | IndoorWaterUseRate | 2,846,039.11 | 0.00 |
| tbiWater | IndoorWaterUseRate | 182,316,947.05 | 0.00 |
| tbiWater | IndoorWaterUseRate | 25,866,148.17 | 0.00 |
| tbiWater | IndoorWaterUseRate | 3,525,981.03 | 0.00 |
| tbiWater | IndoorWaterUseRate | 40,165,166.19 | 0.00 |
| tbiWater | IndoorWaterUseRate | 16,347,828.85 | 0.00 |
| tbiWater | IndoorWaterUseRate | 46,898,993.91 | 0.00 |
| tbiWater | IndoorWaterUseRate | 124,888,493.40 | 2,030,796,655.00 |
| tbiWater | IndoorWaterUseRate | 40,186,146.30 | 0.00 |
| tbiWater | IndoorWaterUseRate | 20,849,288.20 | 0.00 |
| tbiWater | IndoorWaterUseRate | 1,107,357,819.46 | 3,391,648,953.00 |
| tbiWater | IndoorWaterUseRate | 419,696,388.18 | 0.00 |
| tbiWater | IndoorWaterUseRate | 45,422,125.00 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 183,483,650.89 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 454,745,354.61 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 70,731,776.77 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 14,107,158.58 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 342,944,076.87 | 793,953,130.00 |
| tbiWater | OutdoorWaterUseRate | 751,104,105.72 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 17,785,632.60 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 8,599,113.20 | 0.00 |
| tbiWater | OutdoorWaterUseRate | 41,036,842.08 | 0.00 |

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| | | | |
|----------|---------------------|------------------|----------------|
| tblWater | OutdoorWaterUseRate | 157,514.62 | 0.00 |
| tblWater | OutdoorWaterUseRate | 1,282,540,485.55 | 0.00 |
| tblWater | OutdoorWaterUseRate | 871,592,436.90 | 0.00 |
| tblWater | OutdoorWaterUseRate | 37,869,534.66 | 0.00 |
| tblWater | OutdoorWaterUseRate | 7,768,234.55 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,771,821.49 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,231,829.41 | 0.00 |
| tblWater | OutdoorWaterUseRate | 13,698,055.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 32,509,058.40 | 0.00 |
| tblWater | OutdoorWaterUseRate | 4,451,497.06 | 0.00 |
| tblWater | OutdoorWaterUseRate | 34,727,037.53 | 0.00 |
| tblWater | OutdoorWaterUseRate | 16,306,919.50 | 0.00 |
| tblWater | OutdoorWaterUseRate | 391,775.67 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,563,734.01 | 0.00 |
| tblWater | OutdoorWaterUseRate | 25,569,681.02 | 0.00 |
| tblWater | OutdoorWaterUseRate | 2,993,552.80 | 0.00 |
| tblWater | OutdoorWaterUseRate | 76,544,560.47 | 507,699,164.00 |
| tblWater | OutdoorWaterUseRate | 13,144,116.47 | 0.00 |
| tblWater | OutdoorWaterUseRate | 698,116,886.18 | 847,912,238.00 |
| tblWater | OutdoorWaterUseRate | 257,233,270.17 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
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| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |

NewportBeachProject2035

Orange County, Winter

| | | | |
|---------------|--------------------|--------|------|
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWater | SepticTankPercent | 10.33 | 0.00 |
| tblWoodstoves | NumberCatalytic | 223.35 | 0.00 |
| tblWoodstoves | NumberCatalytic | 553.55 | 0.00 |
| tblWoodstoves | NumberCatalytic | 86.10 | 0.00 |
| tblWoodstoves | NumberCatalytic | 914.30 | 0.00 |
| tblWoodstoves | NumberCatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberCatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberCatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 849.80 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 223.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 553.55 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 86.10 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 914.30 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 21.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.85 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 16.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 849.80 | 0.00 |

NewportBeachProject2035 Orange County, Winter

2.0 Emissions Summary

2.2 Overall Operational Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Energy | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| Mobile | 1,959.0603 | 3,487.1511 | 18,355.1091 | 84.1401 | 6,080.0934 | 94.7618 | 6,174.8552 | 1,623.5635 | 87.5355 | 1,711.0991 | | 5,881,956.9605 | 5,881,956.9605 | 165.0383 | | 5,885,422.7641 |
| Total | 8,058.7675 | 3,970.3896 | 25,631.6659 | 86.9003 | 6,080.0934 | 537.1454 | 6,617.2389 | 1,623.5635 | 529.6310 | 2,153.1945 | 35,221.1059 | 6,827,446.4529 | 6,862,667.5588 | 190.6266 | 20.2953 | 6,872,962.2607 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------------|-------------------|--------------------|----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Energy | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| Mobile | 1,959.0603 | 3,487.1511 | 18,355.1091 | 84.1401 | 6,080.0934 | 94.7618 | 6,174.8552 | 1,623.5635 | 87.5355 | 1,711.0991 | | 5,881,956.9605 | 5,881,956.9605 | 165.0383 | | 5,885,422.7641 |
| Total | 8,058.7675 | 3,970.3896 | 25,631.6659 | 86.9003 | 6,080.0934 | 537.1454 | 6,617.2389 | 1,623.5635 | 529.6310 | 2,153.1945 | 35,221.1059 | 6,827,446.4529 | 6,862,667.5588 | 190.6266 | 20.2953 | 6,872,962.2607 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|------------|-------------|---------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|----------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1,959.0603 | 3,487.1511 | 18,355.1091 | 84.1401 | 6,080.0934 | 94.7618 | 6,174.8552 | 1,623.5635 | 87.5355 | 1,711.0991 | | 5,881,956.9605 | 5,881,956.9605 | 165.0383 | | 5,885,422.7641 |
| Unmitigated | 1,959.0603 | 3,487.1511 | 18,355.1091 | 84.1401 | 6,080.0934 | 94.7618 | 6,174.8552 | 1,623.5635 | 87.5355 | 1,711.0991 | | 5,881,956.9605 | 5,881,956.9605 | 165.0383 | | 5,885,422.7641 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-------------------|-------------------|----------------------|----------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 29,437.53 | 31,983.72 | 27,114.69 | 90,377,945 | 90,377,945 |
| Apartments Low Rise | 72,957.89 | 79,268.36 | 67,200.97 | 223,992,441 | 223,992,441 |
| Apartments Mid Rise | 11,347.98 | 12,329.52 | 10,452.54 | 34,840,121 | 34,840,121 |
| Automobile Care Center | 15,168.30 | 15,168.30 | 15,168.30 | 17,838,505 | 17,838,505 |
| City Park | 457.65 | 457.65 | 457.65 | 1,155,047 | 1,155,047 |
| Condo/Townhouse | 120,504.74 | 130,927.76 | 110,996.02 | 369,968,908 | 369,968,908 |
| Congregate Care (Assisted Living) | 1,186.42 | 952.60 | 1,056.52 | 3,479,203 | 3,479,203 |
| Day-Care Center | 6,179.90 | 484.19 | 454.57 | 6,700,587 | 6,700,587 |
| Elementary School | 8,492.07 | 0.00 | 0.00 | 14,536,679 | 14,536,679 |
| Fast Food Restaurant w/o Drive Thru | 5,821.08 | 5,658.48 | 4,065.00 | 11,568,898 | 11,568,898 |
| General Light Industry | 5,394.22 | 1,021.57 | 526.27 | 13,128,018 | 13,128,018 |
| General Office Building | 129,627.78 | 27,903.53 | 11,538.17 | 277,526,704 | 277,526,704 |
| Golf Course | 3,686.86 | 4,257.45 | 4,301.34 | 8,238,072 | 8,238,072 |
| Government (Civic Center) | 8,683.68 | 0.00 | 0.00 | 12,570,397 | 12,570,397 |
| Government Office Building | 4,397.73 | 0.00 | 0.00 | 6,366,111 | 6,366,111 |
| Health Club | 4,334.91 | 2,747.33 | 3,518.74 | 8,527,242 | 8,527,242 |
| Hospital | 23,631.81 | 16,288.14 | 14,387.19 | 58,222,060 | 58,222,060 |
| Hotel | 39,706.20 | 39,803.40 | 28,917.00 | 89,076,762 | 89,076,762 |
| Junior High School | 8,448.30 | 0.00 | 0.00 | 14,461,753 | 14,461,753 |
| Library | 5,115.59 | 4,234.19 | 2,318.57 | 8,740,774 | 8,740,774 |
| Medical Office Building | 52,495.08 | 13,018.43 | 2,252.07 | 92,661,317 | 92,661,317 |
| Mobile Home Park | 1,981.03 | 1,985.00 | 1,730.92 | 5,967,656 | 5,967,656 |
| Motel | 782.57 | 782.57 | 782.57 | 1,825,852 | 1,825,852 |
| Movie Theater (No Matinee) | 8,001.00 | 8,001.00 | 8,001.00 | 19,465,440 | 19,465,440 |
| Place of Worship | 4,759.79 | 5,418.12 | 1,913.44 | 16,791,054 | 16,791,054 |
| Quality Restaurant | 13,898.17 | 14,579.56 | 11,149.44 | 20,188,233 | 20,188,233 |
| Regional Shopping Center | 72,398.13 | 84,250.92 | 42,555.40 | 151,639,822 | 151,639,822 |
| Research & Development | 662.83 | 155.29 | 90.72 | 1,507,069 | 1,507,069 |
| Retirement Community | 899.20 | 899.20 | 899.20 | 2,757,699 | 2,757,699 |
| Single Family Housing | 162,651.72 | 171,319.68 | 149,054.92 | 496,666,811 | 496,666,811 |
| Strip Mall | 251,118.01 | 238,199.48 | 115,756.79 | 438,108,846 | 438,108,846 |
| Unrefrigerated Warehouse-No Rail | 508.73 | 508.73 | 508.73 | 1,639,265 | 1,639,265 |
| Total | 1,074,736.90 | 912,604.16 | 654,393.72 | 2,520,535,293 | 2,520,535,293 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Low Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Automobile Care Center | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 21 | 51 | 28 |
| City Park | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |

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| | | | | | | | | | |
|--------------------------------|------|------|------|-------|-------|-------|----|----|----|
| Condo/Townhouse | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Congregate Care (Assisted) | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Day-Care Center | 9.49 | 9.49 | 9.49 | 12.70 | 82.30 | 5.00 | 28 | 58 | 14 |
| Elementary School | 9.49 | 9.49 | 9.49 | 65.00 | 30.00 | 5.00 | 63 | 25 | 12 |
| Fast Food Restaurant w/o Drive | 9.49 | 9.49 | 9.49 | 1.50 | 79.50 | 19.00 | 51 | 37 | 12 |
| General Light Industry | 9.49 | 9.49 | 9.49 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| General Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Golf Course | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 52 | 39 | 9 |
| Government (Civic Center) | 9.49 | 9.49 | 9.49 | 75.00 | 20.00 | 5.00 | 50 | 34 | 16 |
| Government Office Building | 9.49 | 9.49 | 9.49 | 33.00 | 62.00 | 5.00 | 50 | 34 | 16 |
| Health Club | 9.49 | 9.49 | 9.49 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| Hospital | 9.49 | 9.49 | 9.49 | 64.90 | 16.10 | 19.00 | 73 | 25 | 2 |
| Hotel | 9.49 | 9.49 | 9.49 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Junior High School | 9.49 | 9.49 | 9.49 | 72.80 | 22.20 | 5.00 | 63 | 25 | 12 |
| Library | 9.49 | 9.49 | 9.49 | 52.00 | 43.00 | 5.00 | 44 | 44 | 12 |
| Medical Office Building | 9.49 | 9.49 | 9.49 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |
| Mobile Home Park | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Motel | 9.49 | 9.49 | 9.49 | 19.00 | 62.00 | 19.00 | 58 | 38 | 4 |
| Movie Theater (No Matinee) | 9.49 | 9.49 | 9.49 | 1.80 | 79.20 | 19.00 | 66 | 17 | 17 |
| Place of Worship | 9.49 | 9.49 | 9.49 | 0.00 | 95.00 | 5.00 | 64 | 25 | 11 |
| Quality Restaurant | 9.49 | 9.49 | 9.49 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Regional Shopping Center | 9.49 | 9.49 | 9.49 | 16.30 | 64.70 | 19.00 | 54 | 35 | 11 |
| Research & Development | 9.49 | 9.49 | 9.49 | 33.00 | 48.00 | 19.00 | 82 | 15 | 3 |
| Retirement Community | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Single Family Housing | 9.49 | 9.49 | 9.49 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 9.49 | 9.49 | 9.49 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unrefrigerated Warehouse-No | 9.49 | 9.49 | 9.49 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.477544 | 0.059603 | 0.204041 | 0.158997 | 0.043661 | 0.006299 | 0.017331 | 0.021321 | 0.001547 | 0.002362 | 0.003004 | 0.000478 | 0.003811 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|----------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|--------------|--------------|--------|--------|--------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| Natural Gas Mitigated | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |
| Natural Gas Unmitigated | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.0860 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6373 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use | NaturalGas Use kBtu/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 334143 | 3.6035 | 30.7936 | 13.1036 | 0.1966 | | 2.4897 | 2.4897 | | 2.4897 | 2.4897 | | 39,310.9175 | 39,310.9175 | 0.7535 | 0.7207 | 39,550.1572 |
| Apartments Mid Rise | 40638.3 | 0.4383 | 3.7451 | 1.5937 | 0.0239 | | 0.3028 | 0.3028 | | 0.3028 | 0.3028 | | 4,780.9714 | 4,780.9714 | 0.0916 | 0.0877 | 4,810.0675 |
| Automobile Care Center | 14504.7 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 792819 | 8.5500 | 73.0637 | 31.0910 | 0.4664 | | 5.9073 | 5.9073 | | 5.9073 | 5.9073 | | 93,272.8634 | 93,272.8634 | 1.7877 | 1.7100 | 93,840.5065 |
| Congregate Care (Assisted Living) | 10218.6 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2650.95 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18712.3 | 0.2018 | 1.8345 | 1.5410 | 0.0110 | | 0.1394 | 0.1394 | | 0.1394 | 0.1394 | | 2,201.4440 | 2,201.4440 | 0.0422 | 0.0404 | 2,214.8416 |
| Apartments High Rise | 105419 | 1.1369 | 9.7151 | 4.1341 | 0.0620 | | 0.7855 | 0.7855 | | 0.7855 | 0.7855 | | 12,402.2062 | 12,402.2062 | 0.2377 | 0.2274 | 12,477.6839 |
| Fast Food Restaurant w/o Drive-Thru | 5867.63 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45883.9 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 309340 | 3.3360 | 30.3275 | 25.4751 | 0.1820 | | 2.3049 | 2.3049 | | 2.3049 | 2.3049 | | 36,392.9851 | 36,392.9851 | 0.6975 | 0.6672 | 36,614.4668 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8171.68 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1676.28 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7804.63 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 691559 | 7.4580 | 67.7999 | 56.9519 | 0.4068 | | 5.1528 | 5.1528 | | 5.1528 | 5.1528 | | 81,359.8306 | 81,359.8306 | 1.5594 | 1.4916 | 81,854.9730 |
| Junior High School | 20844.9 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5392.93 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38174.8 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20941.2 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26701.8 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5929.51 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30976.6 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |
| Quality Restaurant | 111514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9469.46 | 0.1021 | 0.9284 | 0.7798 | 5.5700e-003 | | 0.0706 | 0.0706 | | 0.0706 | 0.0706 | | 1,114.0536 | 1,114.0536 | 0.0214 | 0.0204 | 1,120.8335 |
| Research & Development | 4845.58 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13874.1 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |

NewportBeachProject2035
Orange County, Winter

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|------------------------------------|--------------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|--------------------|---------------------|---------------|---------------|---------------------|
| Single Family Housing | 1.34494e+006 | 14.5043 | 123.9457 | 52.7428 | 0.7911 | | 10.0211 | 10.0211 | | 10.0211 | 10.0211 | | 158,228.5144 | 158,228.5144 | 3.0327 | 2.9009 | 159,191.4668 |
| Strip Mall | 31822.8 | 0.3432 | 3.1199 | 2.6207 | 0.0187 | | 0.2371 | 0.2371 | | 0.2371 | 0.2371 | | 3,743.8643 | 3,743.8643 | 0.0718 | 0.0686 | 3,766.6488 |
| Unrefrigerated Warehouse-No Pallet | 2222.51 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.060 | 505,198.0860 | 9.6830 | 9.2620 | 508,272.6374 |

Mitigated

| Land Use | Natural Gas Use kBTU/yr | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------------|--------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| | | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 334.143 | 3.6035 | 30.7936 | 13.1036 | 0.1966 | | 2.4897 | 2.4897 | | 2.4897 | 2.4897 | | 39,310.9175 | 39,310.9175 | 0.7535 | 0.7207 | 39,550.1572 |
| Apartments Mid Rise | 40.6383 | 0.4383 | 3.7451 | 1.5937 | 0.0239 | | 0.3028 | 0.3028 | | 0.3028 | 0.3028 | | 4,780.9714 | 4,780.9714 | 0.0916 | 0.0877 | 4,810.0675 |
| Automobile Care Center | 14.5047 | 0.1564 | 1.4220 | 1.1945 | 8.5300e-003 | | 0.1081 | 0.1081 | | 0.1081 | 0.1081 | | 1,706.4387 | 1,706.4387 | 0.0327 | 0.0313 | 1,716.8238 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 792.819 | 8.5500 | 73.0637 | 31.0910 | 0.4664 | | 5.9073 | 5.9073 | | 5.9073 | 5.9073 | | 93,272.8634 | 93,272.8634 | 1.7877 | 1.7100 | 93,840.5065 |
| Congregate Care (Assisted Living) | 10.2186 | 0.1102 | 0.9417 | 0.4007 | 6.0100e-003 | | 0.0761 | 0.0761 | | 0.0761 | 0.0761 | | 1,202.1839 | 1,202.1839 | 0.0230 | 0.0220 | 1,209.5001 |
| Day-Care Center | 2.65095 | 0.0286 | 0.2599 | 0.2183 | 1.5600e-003 | | 0.0198 | 0.0198 | | 0.0198 | 0.0198 | | 311.8760 | 311.8760 | 5.9800e-003 | 5.7200e-003 | 313.7740 |
| Elementary School | 18.7123 | 0.2018 | 1.8345 | 1.5410 | 0.0110 | | 0.1394 | 0.1394 | | 0.1394 | 0.1394 | | 2,201.4440 | 2,201.4440 | 0.0422 | 0.0404 | 2,214.8416 |
| Apartments High Rise | 105.419 | 1.1369 | 9.7151 | 4.1341 | 0.0620 | | 0.7855 | 0.7855 | | 0.7855 | 0.7855 | | 12,402.2062 | 12,402.2062 | 0.2377 | 0.2274 | 12,477.6839 |
| Fast Food Restaurant w/o Drive Thru | 5.86763 | 0.0633 | 0.5753 | 0.4832 | 3.4500e-003 | | 0.0437 | 0.0437 | | 0.0437 | 0.0437 | | 690.3097 | 690.3097 | 0.0132 | 0.0127 | 694.5108 |
| General Light Industry | 45.8839 | 0.4948 | 4.4984 | 3.7787 | 0.0270 | | 0.3419 | 0.3419 | | 0.3419 | 0.3419 | | 5,398.1006 | 5,398.1006 | 0.1035 | 0.0990 | 5,430.9526 |
| General Office Building | 309.34 | 3.3360 | 30.3275 | 25.4751 | 0.1820 | | 2.3049 | 2.3049 | | 2.3049 | 2.3049 | | 36,392.9851 | 36,392.9851 | 0.6975 | 0.6672 | 36,614.4668 |
| Golf Course | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Government (Civic Center) | 8.17168 | 0.0881 | 0.8011 | 0.6730 | 4.8100e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 961.3739 | 961.3739 | 0.0184 | 0.0176 | 967.2247 |
| Government Office Building | 1.67628 | 0.0181 | 0.1643 | 0.1381 | 9.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | | 197.2094 | 197.2094 | 3.7800e-003 | 3.6200e-003 | 198.4095 |
| Health Club | 7.80463 | 0.0842 | 0.7652 | 0.6427 | 4.5900e-003 | | 0.0582 | 0.0582 | | 0.0582 | 0.0582 | | 918.1917 | 918.1917 | 0.0176 | 0.0168 | 923.7796 |
| Hospital | 237.123 | 2.5572 | 23.2473 | 19.5277 | 0.1395 | | 1.7668 | 1.7668 | | 1.7668 | 1.7668 | | 27,896.7652 | 27,896.7652 | 0.5347 | 0.5114 | 28,066.5402 |
| Hotel | 691.559 | 7.4580 | 67.7999 | 56.9519 | 0.4068 | | 5.1528 | 5.1528 | | 5.1528 | 5.1528 | | 81,359.8306 | 81,359.8306 | 1.5594 | 1.4916 | 81,854.9730 |
| Junior High School | 20.8449 | 0.2248 | 2.0436 | 1.7166 | 0.0123 | | 0.1553 | 0.1553 | | 0.1553 | 0.1553 | | 2,452.3367 | 2,452.3367 | 0.0470 | 0.0450 | 2,467.2612 |
| Library | 5.39293 | 0.0582 | 0.5287 | 0.4441 | 3.1700e-003 | | 0.0402 | 0.0402 | | 0.0402 | 0.0402 | | 634.4618 | 634.4618 | 0.0122 | 0.0116 | 638.3230 |
| Medical Office Building | 38.1748 | 0.4117 | 3.7426 | 3.1438 | 0.0225 | | 0.2844 | 0.2844 | | 0.2844 | 0.2844 | | 4,491.1554 | 4,491.1554 | 0.0861 | 0.0823 | 4,518.4878 |
| Mobile Home Park | 20.9412 | 0.2258 | 1.9299 | 0.8212 | 0.0123 | | 0.1560 | 0.1560 | | 0.1560 | 0.1560 | | 2,463.6713 | 2,463.6713 | 0.0472 | 0.0452 | 2,478.6648 |
| Motel | 26.7018 | 0.2880 | 2.6178 | 2.1990 | 0.0157 | | 0.1990 | 0.1990 | | 0.1990 | 0.1990 | | 3,141.3935 | 3,141.3935 | 0.0602 | 0.0576 | 3,160.5115 |
| Movie Theater (No Matinee) | 5.92951 | 0.0640 | 0.5813 | 0.4883 | 3.4900e-003 | | 0.0442 | 0.0442 | | 0.0442 | 0.0442 | | 697.5892 | 697.5892 | 0.0134 | 0.0128 | 701.8346 |
| Place of Worship | 30.9766 | 0.3341 | 3.0369 | 2.5510 | 0.0182 | | 0.2308 | 0.2308 | | 0.2308 | 0.2308 | | 3,644.3085 | 3,644.3085 | 0.0699 | 0.0668 | 3,666.4872 |

NewportBeachProject2035
Orange County, Winter

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|----------------|-----------------|-----------------|---------------|--|----------------|----------------|--|----------------|----------------|--|--------------------|--------------------|---------------|---------------|---------------------|
| Quality Restaurant | 111.514 | 1.2026 | 10.9327 | 9.1835 | 0.0656 | | 0.8309 | 0.8309 | | 0.8309 | 0.8309 | | 13,119.2810 | 13,119.2810 | 0.2515 | 0.2405 | 13,199.1228 |
| Regional Shopping Center | 9.46946 | 0.1021 | 0.9284 | 0.7798 | 5.5700e-003 | | 0.0706 | 0.0706 | | 0.0706 | 0.0706 | | 1,114.0536 | 1,114.0536 | 0.0214 | 0.0204 | 1,120.8335 |
| Research & Development | 4.84558 | 0.0523 | 0.4751 | 0.3991 | 2.8500e-003 | | 0.0361 | 0.0361 | | 0.0361 | 0.0361 | | 570.0684 | 570.0684 | 0.0109 | 0.0105 | 573.5377 |
| Retirement Community | 13.8741 | 0.1496 | 1.2786 | 0.5441 | 8.1600e-003 | | 0.1034 | 0.1034 | | 0.1034 | 0.1034 | | 1,632.2496 | 1,632.2496 | 0.0313 | 0.0299 | 1,642.1832 |
| Single Family Housing | 1344.94 | 14.5043 | 123.9457 | 52.7428 | 0.7911 | | 10.0211 | 10.0211 | | 10.0211 | 10.0211 | | 158,228.5144 | 158,228.5144 | 3.0327 | 2.9009 | 159,191.4668 |
| Strip Mall | 31.8228 | 0.3432 | 3.1199 | 2.6207 | 0.0187 | | 0.2371 | 0.2371 | | 0.2371 | 0.2371 | | 3,743.8643 | 3,743.8643 | 0.0718 | 0.0686 | 3,766.6488 |
| Unrefrigerated Warehouse-No | 2.22251 | 0.0240 | 0.2179 | 0.1830 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 261.4713 | 261.4713 | 5.0100e-003 | 4.7900e-003 | 263.0625 |
| Total | | 46.3098 | 405.3337 | 238.7644 | 2.5260 | | 31.9959 | 31.9959 | | 31.9959 | 31.9959 | | 505,198.060 | 505,198.060 | 9.6830 | 9.2620 | 508,272.6374 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|------------|---------|------------|--------|---------------|--------------|------------|----------------|---------------|-------------|-------------|--------------|--------------|---------|---------|--------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |
| Unmitigated | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 637.4736 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2,871.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,411.8730 | 26.9356 | 2,618.8825 | 0.0000 | | 385.8059 | 385.8059 | | 385.5177 | 385.5177 | 35,221.1059 | 432,304.9412 | 467,526.0471 | 8.2858 | 11.0333 | 471,120.3838 |
| Landscaping | 132.4205 | 50.9692 | 4,418.9099 | 0.2343 | | 24.5819 | 24.5819 | | 24.5819 | 24.5819 | | 7,986.4652 | 7,986.4652 | 7.6195 | | 8,146.4755 |
| Total | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

NewportBeachProject2035
Orange County, Winter

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 637.4736 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 2.871.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2,411.8730 | 26.9356 | 2,618.8825 | 0.0000 | | 385.8059 | 385.8059 | | 385.5177 | 385.5177 | 35,221.1059 | 432,304.9412 | 467,526.0471 | 8.2858 | 11.0333 | 471,120.3838 |
| Landscaping | 132.4205 | 50.9692 | 4,418.9099 | 0.2343 | | 24.5819 | 24.5819 | | 24.5819 | 24.5819 | | 7,986.4652 | 7,986.4652 | 7.6195 | | 8,146.4755 |
| Total | 6,053.3974 | 77.9048 | 7,037.7924 | 0.2343 | | 410.3878 | 410.3878 | | 410.0996 | 410.0996 | 35,221.1059 | 440,291.4064 | 475,512.5123 | 15.9054 | 11.0333 | 479,266.8593 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation