

APPENDIX AQ-1  
AIR QUALITY AND GHG INPUTS AND ASSUMPTIONS

# North Watt Specific Plan - Emissions Summary

## Construction - Unmitigated

| Emissions Source     | ROG   | NOX   | PM10           | PM2.5 | PM10      | PM2.5 |
|----------------------|-------|-------|----------------|-------|-----------|-------|
|                      |       |       | pounds per day |       | tons/year |       |
| Onsite Construction  | 231.5 | 107.0 | 32.2           | 12.9  | 2.5       | 0.8   |
| Offsite Improvements | 5.9   | 47.3  | 5.2            | 2.2   | 0.5       | 0.2   |
| Total Maximum        | 237.4 | 154.3 | 37.4           | 15.1  | 3.0       | 1.1   |
| SMAQMD Threshold     | -     | 85    | 80             | 82    | 14.6      | 15    |
| Exceeds Threshold?   | -     | Yes   | No             | No    | No        | No    |

## Notes:

1. Onsite construction includes off-road equipment and on-road vehicles related to construction of the Specific Plan area.

## Operations

| Emissions Source                    | ROG    | NOX    | PM10           | PM2.5  | PM10      | PM2.5 |
|-------------------------------------|--------|--------|----------------|--------|-----------|-------|
|                                     |        |        | pounds per day |        | tons/year |       |
| <i>Baseline (2050)</i>              |        |        |                |        |           |       |
| Mobile                              | 445.41 | 304.40 | 960.05         | 245.70 | 170.82    | 43.74 |
| Area                                | 164.68 | 2.16   | 0.39           | 0.30   | 0.05      | 0.04  |
| Energy                              | 1.35   | 24.37  | 1.86           | 1.86   | 0.34      | 0.34  |
| <i>Total Baseline</i>               | 611.44 | 330.92 | 962.31         | 247.86 | 171.20    | 44.12 |
| <i>Proposed Project (2050)</i>      |        |        |                |        |           |       |
| Mobile                              | 591.70 | 398.91 | 1234.26        | 315.89 | 219.60    | 56.24 |
| Area                                | 404.30 | 6.39   | 0.67           | 0.50   | 0.08      | 0.06  |
| Energy                              | 2.97   | 52.27  | 4.10           | 4.10   | 0.75      | 0.75  |
| <i>Total Proposed Project</i>       | 998.97 | 457.57 | 1239.03        | 320.49 | 220.43    | 57.05 |
| Net New Daily Operational Emissions | 387.54 | 126.65 | 276.72         | 72.64  | 49.23     | 12.93 |
| SMAQMD Threshold                    | 65     | 65     | 80             | 82     | 14.6      | 15    |
| Exceeds Threshold?                  | Yes    | Yes    | Yes            | No     | Yes       | No    |

## Notes:

1. Baseline includes all existing parcels/land uses within Specific Plan Area.
2. Proposed project accounts for all existing land uses that would remain, existing uses that would be removed (ie demolished) or redeveloped/converted, and newly constructed land uses.

## Construction - Mitigated

| Emissions Source     | ROG   | NOX  | PM10           | PM2.5 | PM10      | PM2.5 |
|----------------------|-------|------|----------------|-------|-----------|-------|
|                      |       |      | pounds per day |       | tons/year |       |
| Onsite Construction  | 224.8 | 35.2 | 29.2           | 10.1  | 2.3       | 0.7   |
| Offsite Improvements | 2.4   | 14.3 | 3.7            | 0.9   | 0.4       | 0.1   |
| Maximum Daily        | 227.2 | 49.5 | 32.8           | 11.0  | 2.7       | 0.8   |
| SMAQMD Threshold     | -     | 85   | 80             | 82    | 14.6      | 15    |
| Exceeds Threshold?   | -     | No   | No             | No    | No        | No    |

## Notes:

1. Onsite construction includes off-road equipment and on-road vehicles related to construction of the Specific Plan area.
2. Mitigation for Tier 4 Final for equipment > 50 HP.

Project Name: North Watt Specific Plan - Baseline  
 Location: Unincorporated Sacramento County  
 Operational Year: 2025, 2050  
 Utility: SMUD (electric); PG&E (gas)

|      |             |
|------|-------------|
| acre | square feet |
| 1    | 43560       |

| Existing Land Uses - Baseline |                                      |          |                |         |                                 |
|-------------------------------|--------------------------------------|----------|----------------|---------|---------------------------------|
| Land Use Type                 | Land Use Subtype                     | Size     | Size Unit      | Acres   | Building Square Footage (sq ft) |
| Commercial                    | Bank (with drive thru)               | 26.47    | 1000 sf        | 2.012   | 26,469                          |
| Commercial                    | General Office Building              | 635.73   | 1000 sf        | 47.662  | 635,734                         |
| Commercial                    | Government Office Building           | 194.50   | 1000 sf        | 8.736   | 194,498                         |
| Commercial                    | Medical Office Building              | 11.43    | 1000 sf        | 1.006   | 11,430                          |
| Educational                   | Library                              | 37.50    | 1000 sf        | 6.551   | 37,500                          |
| Educational                   | Place of Worship                     | 172.47   | 1000 sf        | 23.885  | 172,468                         |
| Industrial                    | General Heavy Industry               | 65.53    | 1000 sf        | 11.266  | 65,528                          |
| Industrial                    | Warehouse (Unrefrigerated - no rail) | 2,088.19 | 1000 sf        | 129.931 | 2,088,194                       |
| Parking                       | Parking Lot                          | 281.61   | 1000 sf        | 6.465   | 0                               |
| Recreational                  | City Park                            | 852.98   | 1000 sf        | 19.582  | 2,650                           |
| Recreational                  | Fast Food Restaurant with Drive Thru | 41.01    | 1000 sf        | 10.741  | 41,006                          |
| Recreational                  | Health Club                          | 60.38    | 1000 sf        | 5.368   | 60,379                          |
| Recreational                  | Motel                                | 63       | rooms          | 1.069   | 16,030                          |
| Recreational                  | Quality Restaurant                   | 42.81    | 1000 sf        | 7.045   | 42,812                          |
| Recreational                  | User Defined Recreational            | 38.04    | 1000 sf        | 0.873   | 136                             |
| Residential                   | Apartment (Low Rise)                 | 742      | dwelling units | 32.414  | 588,481                         |
| Residential                   | Condo/Townhouse                      | 4        | dwelling units | 0.397   | 2,811                           |
| Residential                   | Single Family Housing                | 7        | dwelling units | 2.739   | 7,325                           |
| Retail                        | Supermarket                          | 65.33    | 1000 sf        | 5.666   | 65,328                          |
| Retail                        | Automobile Care Center               | 266.23   | 1000 sf        | 27.661  | 266,227                         |
| Retail                        | Convenience Market (24 Hours)        | 2.16     | 1000 sf        | 0.507   | 2,160                           |
| Retail                        | Free Standing Discount Store         | 13.30    | 1000 sf        | 1.505   | 13,299                          |
| Retail                        | Free standing discount superstore    | 121.22   | 1000 sf        | 7.648   | 121,222                         |
| Retail                        | Home Improvement Superstore          | 209.14   | 1000 sf        | 15.508  | 209,143                         |
| Retail                        | Regional Shopping Center             | 115.29   | 1000 sf        | 8.136   | 115,287                         |
| Retail                        | Strip Mall                           | 628.17   | 1000 sf        | 62.863  | 628,165                         |

Source: Development Assumptions spreadsheet

**447.23678**

Notes:

1. Conservatively assumes no existing landscaped or paved area for all land uses aside from Single Family Housing. The same assumption is made for the post-project modeling run, so any associated emissions are netted out.
2. Existing vacant parcels are not included.

#### CalEEMod defaults for energy, water, waste

#### Project-Specific VMT Data (SPA - No Project)

| Metric            | 2020      |             | 2050      |             |
|-------------------|-----------|-------------|-----------|-------------|
|                   | Daily     | Annual      | Daily     | Annual      |
| SPA Vehicle Trips | 201,437   | 73,524,505  | 226,683   | 82,739,295  |
| SPA Vehicle VMT   | 1,212,613 | 442,603,745 | 1,353,749 | 494,118,385 |

Source: Modeled by AECOM

Notes:

1. Annual data assumes 365 days per year.

CalEEMod Inputs  
Project Name: North Watt Specific Plan - Project  
Location: Unincorporated Sacramento County  
Start of Construction: 1/1/2027  
Operational Year: 2050  
Utility: SMUD (electric); PG&E (gas)

| acre | square feet |
|------|-------------|
| 1    | 43560       |

| Full Buildout - Project (2050)        |                                                           |                                      |         |                |                  |                                 |                           |                                      |                |                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------|--------------------------------------|---------|----------------|------------------|---------------------------------|---------------------------|--------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Existing or Proposed Project Land Use | Land Use Type                                             | Land Use Subtype                     | Size    | Size Unit      | Acres            | Building Square Footage (sq ft) | % Landscaped <sup>1</sup> | Landscaped Area <sup>1</sup> (sq ft) | Parking Spaces | Notes                                                                                                                                                                                                                   |
| Proposed Project                      | Residential                                               | Apartments Low-Rise                  | 48      | dwelling units | 2.95             | CalEEMod Default (50,880)       | 20%                       | 25,700                               | 72             | 20% minimum landscape per previous North Watt Corridor Plan for residential mixed use. Assume 1.5 parking spaces per DU (average of Studio/1-bed/2+ bed parking requirements from Corridor Plan.)                       |
| Proposed Project                      | Residential                                               | Mixed Use (Apartments Mid-Rise)      | 7,212   | dwelling units | 207.89           | CalEEMod Default (6,923,520)    | 20%                       | 1,811,100                            | 10,817         | 20% minimum landscape per previous North Watt Corridor Plan for residential mixed use. Assume 1.5 parking spaces per DU (average of Studio/1-bed/2+ bed parking requirements from Corridor Plan)                        |
| Proposed Project                      | Retail                                                    | Mixed Use (Regional Shopping Center) | 1137.62 | 1000 sf        | 0 - See Note 3   | 1,137,621                       | 0 - See Note 3            | 0 - See Note 3                       | 3,982          | 3.5 parking spaces per 1,000 sf per previous North Watt Corridor Plan for residential mixed use                                                                                                                         |
| Proposed Project                      | Commercial                                                | Mixed Use (General Office Building)  | 786.71  | 1000 sf        | 0 - See Note 3   | 786,708                         | 0 - See Note 3            | 0 - See Note 3                       | 2,753          | 3.5 parking spaces per 1,000 sf per previous North Watt Corridor Plan for residential mixed use                                                                                                                         |
| Proposed Project                      | Additional Paved Area (paved areas from indiv. land uses) |                                      | -       | -              | Default (158.62) | -                               | -                         | -                                    | 17,625         | Total parking area based on spaces per land use.                                                                                                                                                                        |
| Existing                              | Commercial                                                | General Office Building              | 551.96  | 1000 sf        | 38.750           | 551,359                         | -                         | -                                    | -              | Conservatively assumes no landscaping or paved area for all existing land uses aside from Single Family Housing. The same assumption is made for the existing baseline run, so any associated emissions are netted out. |
| Existing                              | Commercial                                                | Government Office Building           | 194.50  | 1000 sf        | 8.136            | 194,498                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Educational                                               | Library                              | 37.50   | 1000 sf        | 6.551            | 37,500                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Educational                                               | Place of Worship                     | 172.47  | 1000 sf        | 23.885           | 172,468                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Industrial                                                | General Heavy Industry               | 56.10   | 1000 sf        | 2.808            | 56,095                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Industrial                                                | Warehouse (Unrefrigerated - no rail) | 2063.18 | 1000 sf        | 125.086          | 2,063,178                       | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Parking                                                   | Parking Lot                          | 2125.42 | 1000 sf        | 4.945            | 0                               | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | City Park                            | 852.98  | 1000 sf        | 19.582           | 2,650                           | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | Fast Food Restaurant with Drive Thru | 28.05   | 1000 sf        | 7.156            | 28,045                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | Health Club                          | 60.38   | 1000 sf        | 5.368            | 60,379                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | Motel                                | 63      | rooms          | 1.069            | 16,030                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | Quality Restaurant                   | 8.58    | 1000 sf        | 1.447            | 9,577                           | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Recreational                                              | User Defined Recreational            | 38.04   | 1000 sf        | 0.873            | 38                              | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Residential                                               | Apartment (Low Rise)                 | 742     | dwelling units | 32.414           | 588,481                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Residential                                               | Condo/Townhouse                      | 4       | dwelling units | 0.397            | 2,811                           | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Residential                                               | Single Family Housing                | 2       | dwelling units | 2.108            | 1,849                           | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Retail                                                    | Free standing discount superstore    | 121.22  | 1000 sf        | 7.648            | 121,222                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Retail                                                    | Home Improvement Superstore          | 209.14  | 1000 sf        | 15.508           | 209,143                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Retail                                                    | Regional Shopping Center             | 97.35   | 1000 sf        | 6.626            | 97,359                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Retail                                                    | Strip Mall                           | 384.58  | 1000 sf        | 5.089            | 384,579                         | -                         | -                                    | -              |                                                                                                                                                                                                                         |
| Existing                              | Retail                                                    | Supermarket                          | 60.92   | 1000 sf        | 5.215            | 60,918                          | -                         | -                                    | -              |                                                                                                                                                                                                                         |

Source: Development Assumptions spreadsheet

Notes:

1. Assumed landscaped percentages based on previous North Watt Corridor Plan per table notes. CalEEMod default assumed for low-density residential.
  2. Assumed paved area (parking) percentages based on aerial photos of existing land use types in surrounding area. CalEEMod includes paved area for low-density residential automatically, so no additional paved area included for this land use type.
  3. For Commercial mixed use project land uses, the total mixed-use acreage is input for the residential component of the land use per CalEEMod User Guide.
  4. Previously adopted North Watt Corridor Plan assumed 1,300,000 sf of retail and 899,000 sf of office space. Applied those proportions to total Retail/Commercial building sq ft proposed under this North Watt Specific Plan.
- |        |         |     |
|--------|---------|-----|
| Office | 899000  | 41% |
| Retail | 1300000 | 59% |
5. Assumes compliance with RPS (0 lb CO<sub>2</sub>e per MWh)

CalEEMod Defaults for energy, water, waste, refrigerants

Project Specific VMT (SPA - Project)

| Metric            | Future SPA (Existing Plus Project) |             |
|-------------------|------------------------------------|-------------|
|                   | Daily                              | Annual      |
| SPA Vehicle Trips | 302,808                            | 110,525,286 |
| SPA Vehicle VMT   | 1,740,370                          | 635,235,050 |

Source: Modeled by AECOM in 2026

Notes:

1. Annual data assumes 365 days per year.

| Worst Case Year of Construction (20%)                           |                                      |                                                                            |              |                   |                 |                    |                                              |                                      |                             |       |
|-----------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------|--------------|-------------------|-----------------|--------------------|----------------------------------------------|--------------------------------------|-----------------------------|-------|
| Land Use Type                                                   | Land Use Subtype                     | % of Total Development Assumed Constructed in Worst Case Year <sup>2</sup> | % Landscaped | Maximum Year Size | Size Unit       | Maximum Year Acres | Maximum Year Building Square Footage (sq ft) | Maximum Year Landscaped Area (sq ft) | Maximum Year Parking Spaces | Notes |
| Residential                                                     | Apartments Low-Rise                  | 20%                                                                        | 20%          | 10                | dwelling units  | 0.59               | CalEEMod Default (10960)                     | 5,100                                | 14                          |       |
| Residential                                                     | Mixed Use (Apartments Mid-Rise)      | 20%                                                                        | 20%          | 1442              | dwellings units | 41.58              | CalEEMod Default (1384320)                   | 362,200                              | 2,163                       |       |
| Retail                                                          | Mixed Use (Regional Shopping Center) | 20%                                                                        | -            | 227,524           | 1000 sf         | 0 - See Note 3     | 227,524                                      | 0                                    | 796                         |       |
| Commercial                                                      | Mixed Use (General Office Building)  | 20%                                                                        | -            | 157,342           | 1000 sf         | 0 - See Note 3     | 157,342                                      | 0                                    | 551                         |       |
| Total Additional Paved Area (paved areas from indiv. land uses) | Parking (Parking Lot)                | 20%                                                                        | -            |                   |                 | Default (21.7)     | -                                            | 0                                    | 3,525                       |       |

Note:

1. 20% of development assumed construction in worst case year.
2. All phases of construction (e.g. grading, paving, etc.) are assumed to overlap as a worst case daily emissions scenario.
3. No import/export of soil material assumed. Buildings on existing parcels that would be redeveloped are included in demolition phase; see table below.
4. Assumes watering 2x per day consistent with SMAQMD BMPs.

Revised Phase Schedule for Worst-Case Construction Year

|                       |                       | CalEEMod Defaults |           | Revised Schedule for 1-year duration |                |              |                        |
|-----------------------|-----------------------|-------------------|-----------|--------------------------------------|----------------|--------------|------------------------|
| Phase Name            | Phase Type            | Start Date        | End Date  | Work Days per Phase                  | New Start Date | New End Date | New Workdays per Phase |
| Demolition            | Demolition            | 1/1/2027          | 4/9/2027  | 70                                   | 1/1/2027       | 12/30/2027   | 260                    |
| Site Preparation      | Site Preparation      | 4/10/2027         | 6/5/2027  | 40                                   | 1/1/2027       | 2/26/2027    | 40                     |
| Grading               | Grading               | 6/6/2027          | 11/7/2027 | 110                                  | 1/1/2027       | 6/3/2027     | 110                    |
| Building Construction | Building Construction | 11/8/2027         | 2/9/2028  | 1110                                 | 1/1/2027       | 12/30/2027   | 260                    |
| Paving                | Paving                | 2/10/2028         | 6/26/2028 | 76                                   | 1/1/2027       | 4/15/2027    | 76                     |
| Architectural Coating | Architectural Coating | 5/26/2028         | 9/8/2028  | 75                                   | 1/1/2027       | 4/15/2027    | 75                     |

Notes:

1. Assume demolition occurs throughout maximum construction year.

| Default Construction Equipment |                           |           |             |                |               |            |             |
|--------------------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Phase Name                     | Equipment Type            | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
| Demolition                     | Rubber Tired Dozers       | Diesel    | Average     | 2              | 8             | 367        | 0.4         |
| Demolition                     | Excavators                | Diesel    | Average     | 3              | 8             | 36         | 0.38        |
| Demolition                     | Concrete/Industrial Saws  | Diesel    | Average     | 1              | 8             | 33         | 0.73        |
| Site Preparation               | Rubber Tired Dozers       | Diesel    | Average     | 3              | 8             | 367        | 0.4         |
| Site Preparation               | Tractors/Loaders/Backhoes | Diesel    | Average     | 4              | 8             | 84         | 0.37        |
| Grading                        | Graders                   | Diesel    | Average     | 1              | 8             | 148        | 0.41        |
| Grading                        | Excavators                | Diesel    | Average     | 2              | 8             | 36         | 0.38        |
| Grading                        | Tractors/Loaders/Backhoes | Diesel    | Average     | 2              | 8             | 84         | 0.37        |
| Grading                        | Scrapers                  | Diesel    | Average     | 2              | 8             | 423        | 0.48        |
| Grading                        | Rubber Tired Dozers       | Diesel    | Average     | 1              | 8             | 367        | 0.4         |
| Building Construction          | Forklifts                 | Diesel    | Average     | 3              | 8             | 82         | 0.2         |
| Building Construction          | Generator Sets            | Diesel    | Average     | 1              | 8             | 14         | 0.74        |
| Building Construction          | Cranes                    | Diesel    | Average     | 1              | 7             | 367        | 0.29        |
| Building Construction          | Welders                   | Diesel    | Average     | 1              | 8             | 46         | 0.43        |
| Building Construction          | Tractors/Loaders/Backhoes | Diesel    | Average     | 3              | 7             | 84         | 0.37        |
| Paving                         | Pavers                    | Diesel    | Average     | 2              | 8             | 81         | 0.42        |
| Paving                         | Paving Equipment          | Diesel    | Average     | 2              | 8             | 89         | 0.36        |
| Paving                         | Rollers                   | Diesel    | Average     | 2              | 8             | 36         | 0.38        |
| Architectural Coatings         | Air Compressors           | Diesel    | Average     | 1              | 5             | 37         | 0.48        |

Demolition Quantities

|                                                               |         |
|---------------------------------------------------------------|---------|
| Total Estimated Building Demo<br>(building sq ft)             | 744,674 |
| Assumed Maximum Demolition in<br>Worst Case Construction Year | 148,935 |

Source: Development Assumptions spreadsheet

1. The same land uses are modeled for the Operational Baseline emissions.  
2. Assumes 20% of existing land uses would be demolished in worst case construction year.

Dust Control BMPs

Water exposed surfaces 2x daily

Mitigation Measures

Tier 4 Final for equipment > 50 HP

North Watt Specific Plan  
 Offsite Utility Connections and Roadway Repair  
 Start of Construction:  
 Assume 20% constructed in first year

1/1/2027

| Component                       | Land Use Type              | Length (mi) | Acreage | Notes                                   |
|---------------------------------|----------------------------|-------------|---------|-----------------------------------------|
| Utility and Street Improvements | Linear (Road Construction) | 1.60        | 15.9    |                                         |
| Trail Improvements              | Linear (Road Construction) | 0.13        | 1.6     | Includes 100 feet of disturbance width. |

Notes:

1. Assume Weathered Rock-Earth predominant soil type.
2. Land use inputs assume 20% of offsite improvements constructed in first year, based on data below for total offsite improvement area:

|                                   | Length (ft) | Average Width (ft) | Acreage | Notes                        |
|-----------------------------------|-------------|--------------------|---------|------------------------------|
| Reimagine North Watt Improvements | 15808       | 129                | 46.8    |                              |
| Other ROW improvements            | 26344       | 53.9               | 32.6    |                              |
| Trail Improvements                | 3520        | 100                | 8.1     | 10 feet in width to be paved |

Conversions

|          |       |       |
|----------|-------|-------|
| 1 mile = | 5280  | ft    |
| 1 acre = | 43560 | sq ft |

Construction schedule - default for 260 day linear phase duration.

Construction equipment - CalEEMod defaults

Paved Area

| Component                       | Paved Area (acres) | % Asphalt |
|---------------------------------|--------------------|-----------|
| Utility and Street Improvements | 15.9               | 100       |
| Trail Improvements              | 0.16               | 100       |

Note:

1. Trail improvements assume only 10 feet assumed to be paved.

|                                    |
|------------------------------------|
| <b>Dust Control BMPs</b>           |
| Water exposed surfaces 2x daily    |
| <b>Mitigation Measures</b>         |
| Tier 4 Final for equipment > 50 HP |

North Watt Specific Plan  
Existing Conditions and Future Development GHG Emissions

| Proposed Specific Plan Emissions Source                                        | Existing Development GHG Emissions<br>in 2020 | Existing Development GHG Emissions in<br>2050 | Future (Existing + New) GHG Emissions<br>in 2050 |
|--------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------------|
|                                                                                | (MT CO <sub>2</sub> e)                        | (MT CO <sub>2</sub> e)                        | (MT CO <sub>2</sub> e)                           |
| Total Potential Construction Emissions                                         | -                                             | -                                             | 23,578                                           |
| Annual Construction Amortized Over 30 Years                                    |                                               |                                               | 786                                              |
| Annual Operational Mobile Activity                                             | 171,050                                       | 141,470                                       | 182,201                                          |
| Annual Operational Area Sources                                                | 111                                           | 111                                           | 260                                              |
| Annual Operational Energy Sources <sup>1</sup>                                 | 15,664                                        | 4,859                                         | 10,695                                           |
| Annual Operational Water Use                                                   | 892                                           | 510                                           | 752                                              |
| Annual Operational Waste Generation                                            | 3,278                                         | 3,278                                         | 4,986                                            |
| Annual Operational Refrigerant Use                                             | 2,348                                         | 2,348                                         | 2,119                                            |
| Total Annual Operational Emissions                                             | 193,342                                       | 152,575                                       | 201,013                                          |
| Specific Plan Employees                                                        | 4,275                                         | 4275                                          | 6478                                             |
| Specific Plan Residents                                                        | 2,687                                         | 2687                                          | 28566                                            |
| Total Service Population Associated with Specific Plan (Employees + Residents) | 6962                                          | 6962                                          | 35044                                            |
| GHG Efficiency (MT CO <sub>2</sub> e per service population)                   | 27.77                                         | 21.92                                         | 5.74                                             |
| Improvement from Existing 2020<br>Conditions                                   |                                               |                                               | 79%                                              |
| Improvement from Existing 2050<br>Conditions                                   |                                               |                                               | 74%                                              |

North Watt Specific Plan  
Estimated Project Net Annual Operational Energy Consumption

| Operational Activity                      | Units            | Existing Consumption | Existing Operational<br>Energy Consumption<br>(MMBTU) | Future Consumption | MMBTU     |
|-------------------------------------------|------------------|----------------------|-------------------------------------------------------|--------------------|-----------|
| Electricity Consumption                   | MWh              | 66,008               | 493,528                                               | 154,131            | 1,152,397 |
| Natural Gas Consumption                   | MMBTU            | 91,318               | 91,318                                                | 212,032            | 212,032   |
| Transportation Gasoline<br>Consumption    | gallons gasoline | 11,749,653           | 1,468,707                                             | 16,863,371         | 2,107,921 |
| Transportation Diesel<br>Consumption      | gallons diesel   | 2,761,648            | 381,107                                               | 3,963,581          | 546,974   |
| Transportation Electricity<br>Consumption | MWh              | 35,131               | 262,668                                               | 50,421             | 376,987   |
| Total                                     |                  | -                    | 2,697,328                                             | -                  | 4,396,312 |

|                       |        |          |        |          |
|-----------------------|--------|----------|--------|----------|
| Population            | 2687   | persons  | 28,566 | persons  |
| Energy Use per Person | 1004.0 | MMBTU/SP | 153.9  | MMBTU/SP |

|                       |       |                             |
|-----------------------|-------|-----------------------------|
| Conversions           |       |                             |
| Natural Gas           | 1000  | kBtu/MMBtu                  |
| Electricity (PG&E)    | 7.477 | MMBTU per MWh (or kBtu/kWh) |
| Diesel (heat content) | 0.138 | MMBTu/gallon                |
| Motor Gasoline        | 0.125 | MMBTu/gallon                |



Baseline Energy Consumption (Other than Mobile)

| Conversion Factors                                                                                      |                                   |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|
| Sacramento Metropolitan Utility District (SMUD)                                                         | 7.477 MMBtu per MWh (or kBtu/kWh) |
| Notes: kWh = kilowatt-hours; kBtu = thousand British thermal unit, MMBtu = million British thermal unit |                                   |

Source: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/quarterly-fuel-and-energy-report-qfer-2>

| Energy Demand by Land Use (CalEEMod output data) | Electricity Demand (kWh/year) | Natural Gas Demand (kBtu/year) |
|--------------------------------------------------|-------------------------------|--------------------------------|
| Project                                          | 237,982                       | 1,046,740                      |
| Bank (with Drive-Through)                        | 14,637,398                    | 21,150,607                     |
| General Office Building                          | 4,478,201                     | 6,470,868                      |
| Government Office Building                       | 263,169                       | 380,271                        |
| Medical Office Building                          | 337,161                       | 1,482,970                      |
| Library                                          | 1,550,652                     | 6,820,396                      |
| Place of Worship                                 | 589,159                       | 2,591,361                      |
| General Heavy Industry                           | 17,620,639                    | 6,892,949                      |
| Unrefrigerated Warehouse-No Rail                 | 246,690                       | 0                              |
| Parking Lot                                      | 0                             | 0                              |
| City Park                                        | 1,801,754                     | 4,934,829                      |
| Fast Food Restaurant with Drive Thru             | 542,865                       | 2,387,740                      |
| Health Club                                      | 99,554                        | 753,765                        |
| Motel                                            | 1,672,299                     | 5,152,171                      |
| Quality Restaurant                               | 0                             | 0                              |
| User Defined Recreational                        | 3,671,674                     | 9,450,175                      |
| Apartments Low Rise                              | 24,911                        | 70,042                         |
| Condo/Townhouse                                  | 62,358                        | 275,316                        |
| Single Family Housing                            | 3,099,262                     | 1,314,294                      |
| Supermarket                                      | 2,393,634                     | 10,526,177                     |
| Automobile Care Center                           | 102,474                       | 43,456                         |
| Convenience Market (24 hour)                     | 124,496                       | 117,096                        |
| Free-Standing Discount store                     | 1,134,797                     | 1,067,344                      |
| Free-Standing Discount Superstore                | 1,957,854                     | 1,941,477                      |
| Home Improvement Superstore                      | 1,079,238                     | 1,015,087                      |
| Regional Shopping Center                         | 5,880,451                     | 5,530,911                      |
| Strip Mall                                       | 63,408,671                    | 91,318,042                     |
| Total                                            |                               |                                |

Water Energy Demand by Land Use (CalEEMod output data)

| Land Use                             | Electricity Intensity: Supply, Treat and Distribute (kWh/Mgal) | Electricity Intensity: Treatment (kWh/Mgal) | Indoor Water Usage (gal/year) | Outdoor Water Usage (gal/year) | Indoor Water Electricity Usage (kWh) | Outdoor Water Electricity Usage (kWh) | Total Water Electricity Usage (kWh) |
|--------------------------------------|----------------------------------------------------------------|---------------------------------------------|-------------------------------|--------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|
| Apartments Low Rise                  | 1.612                                                          | 1.519                                       | 1,048,619                     | 0                              | 3,264                                | 0                                     | 3,264                               |
| Apartments Mid Rise                  | 1.612                                                          | 1.519                                       | 112,990,676                   | 0                              | 353,774                              | 0                                     | 353,774                             |
| Regional Shopping Center             | 1.612                                                          | 1.519                                       | 38,639,309                    | 0                              | 120,980                              | 0                                     | 120,980                             |
| General Office Building              | 1.612                                                          | 1.519                                       | 1,434,243                     | 0                              | 4,491                                | 0                                     | 4,491                               |
| Parking Lot                          | 1.612                                                          | 1.519                                       | 1,173,334                     | 0                              | 3,674                                | 0                                     | 3,674                               |
| General Office Building              | 1.612                                                          | 1.519                                       | 5,396,395                     | 0                              | 16,896                               | 0                                     | 16,896                              |
| Government Office Building           | 1.612                                                          | 1.519                                       | 15,094,438                    | 0                              | 47,229                               | 0                                     | 47,229                              |
| Library                              | 1.612                                                          | 1.519                                       | 482,893,938                   | 0                              | 1,511,941                            | 0                                     | 1,511,941                           |
| Place of Worship                     | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| General Heavy Industry               | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Unrefrigerated Warehouse-No Rail     | 1.612                                                          | 1.519                                       | 12,447,918                    | 0                              | 38,974                               | 0                                     | 38,974                              |
| Parking Lot                          | 1.612                                                          | 1.519                                       | 3,571,063                     | 0                              | 11,181                               | 0                                     | 11,181                              |
| City Park                            | 1.612                                                          | 1.519                                       | 1,598,107                     | 0                              | 5,004                                | 0                                     | 5,004                               |
| Fast Food Restaurant with Drive Thru | 1.612                                                          | 1.519                                       | 12,994,278                    | 0                              | 40,685                               | 0                                     | 40,685                              |
| Health Club                          | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Motel                                | 1.612                                                          | 1.519                                       | 26,162,178                    | 0                              | 81,914                               | 0                                     | 81,914                              |
| Quality Restaurant                   | 1.612                                                          | 1.519                                       | 141,036                       | 0                              | 442                                  | 0                                     | 442                                 |
| User Defined Recreational            | 1.612                                                          | 1.519                                       | 246,813                       | 1,399,567                      | 773                                  | 2,256                                 | 3,029                               |
| Apartments Low Rise                  | 1.612                                                          | 1.519                                       | 9,053,112                     | 0                              | 25,214                               | 0                                     | 25,214                              |
| Condo/Townhouse                      | 1.612                                                          | 1.519                                       | 25,047,213                    | 0                              | 78,423                               | 0                                     | 78,423                              |
| Single Family Housing                | 1.612                                                          | 1.519                                       | 159,997                       | 0                              | 501                                  | 0                                     | 501                                 |
| Free-Standing Discount Superstore    | 1.612                                                          | 1.519                                       | 985,185                       | 0                              | 3,085                                | 0                                     | 3,085                               |
| Home Improvement Superstore          | 1.612                                                          | 1.519                                       | 8,979,071                     | 0                              | 28,113                               | 0                                     | 28,113                              |
| Regional Shopping Center             | 1.612                                                          | 1.519                                       | 15,491,527                    | 0                              | 48,504                               | 0                                     | 48,504                              |
| Strip Mall                           | 1.612                                                          | 1.519                                       | 8,539,821                     | 0                              | 26,738                               | 0                                     | 26,738                              |
| Supermarket                          | 1.612                                                          | 1.519                                       | 46,530,136                    | 0                              | 145,686                              | 0                                     | 145,686                             |
| Total                                | --                                                             | --                                          | 829,608,587                   | 1,399,567                      | 2,597,504                            | -                                     | 2,599,761                           |

Electricity Intensity Factors are CalEEMod defaults.

North Watt Specific Plan  
Energy Calculations

Baseline Energy Consumption (Other than Mobile)

Total Area+Water Energy Demand

| Land Use                             | Electricity Demand (kWh/year) | Natural Gas Demand (kBtu/year) | Total Energy Demand (MMBTU/year) |
|--------------------------------------|-------------------------------|--------------------------------|----------------------------------|
| Apartments Low Rise                  | 241,265                       | 1,046,740                      | 2,851                            |
| Apartments Mid Rise                  | 14,991,172                    | 21,150,607                     | 133,236                          |
| Regional Shopping Center             | 4,599,181                     | 6,470,858                      | 40,858                           |
| General Office Building              | 267,660                       | 380,271                        | 2,381                            |
| Parking Lot                          | 340,834                       | 1,482,970                      | 4,031                            |
| General Office Building              | 1,567,548                     | 6,820,396                      | 18,541                           |
| Government Office Building           | 636,389                       | 2,591,361                      | 7,349                            |
| Library                              | 19,132,580                    | 6,892,949                      | 149,942                          |
| Place of Worship                     | 246,690                       | 0                              | 1,844                            |
| General Heavy Industry               | 0                             | 0                              | 0                                |
| Unrefrigerated Warehouse-No Rail     | 1,640,729                     | 4,934,829                      | 17,202                           |
| Parking Lot                          | 554,046                       | 2,387,740                      | 6,530                            |
| City Park                            | 104,557                       | 753,765                        | 1,536                            |
| Fast Food Restaurant with Drive Thru | 1,712,984                     | 5,152,171                      | 17,950                           |
| Health Club                          | 0                             | 0                              | 0                                |
| Motel                                | 3,753,587                     | 9,450,175                      | 37,515                           |
| Quality Restaurant                   | 25,352                        | 70,042                         | 260                              |
| User Defined Recreational            | 65,386                        | 275,318                        | 764                              |
| Apartments Low Rise                  | 3,124,476                     | 1,314,294                      | 24,675                           |
| Condo/Townhouse                      | 2,472,057                     | 10,528,177                     | 29,011                           |
| Single Family Housing                | 102,975                       | 43,456                         | 813                              |
| Free-Standing Discount Superstore    | 127,581                       | 117,096                        | 1,071                            |
| Home Improvement Superstore          | 1,162,911                     | 1,067,344                      | 9,762                            |
| Regional Shopping Center             | 2,008,358                     | 1,841,477                      | 16,842                           |
| Strip Mall                           | 1,105,976                     | 1,015,087                      | 9,284                            |
| Supermarket                          | 6,026,137                     | 5,530,911                      | 50,587                           |
| Total                                | 66,008,432                    | 91,318,042                     | 584,846                          |

North Watt Specific Plan  
Operational Transportation Energy Consumption - Baseline

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: Sacramento

Calendar Year: 2050

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, kWh/day for Energy Consumption

Onroad Annual  
VMT:  
442,603.745

| Region     | Calendar Year | Vehicle Category | Model Year | Speed     | Fuel           | Population  | Total VMT<br>miles/day | CVMT<br>miles/day | EVMT<br>miles/day | Trips<br>trips/day | Energy                 | Fuel Consumption<br>1000 gallons/day | Kwh/mile  | % VMT | Baseline Annual | Baseline Annual Fuel     | Baseline Annual Electricity |             |
|------------|---------------|------------------|------------|-----------|----------------|-------------|------------------------|-------------------|-------------------|--------------------|------------------------|--------------------------------------|-----------|-------|-----------------|--------------------------|-----------------------------|-------------|
|            |               |                  |            |           |                |             |                        |                   |                   |                    | Consumption<br>kWh/day |                                      |           |       | VMT             | Consumption<br>(gallons) | Consumption                 |             |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Gasoline       | 0.788572172 | 96.20923179            | 96.20923179       | 0                 | 15.77775201        | 0                      | 0.020138002                          | 0.00%     |       | 907.67          | 189.9895356              | 0                           |             |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Diesel         | 11228.40195 | 1443077.573            | 1443077.573       | 0                 | 161919.9506        | 0                      | 196.0150222                          | 3.08%     |       | 13614540.12     | 1849279.923              | 0                           |             |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Electricity    | 5703.030955 | 413789.8294            | 0                 | 413789.8294       | 51037.39387        | 775377.5222            | 0                                    | 1.8738438 | 0.88% |                 | 3903849.89               | 0                           | 7315205.07  |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Natural Gas    | 719.0771983 | 46400.87617            | 46400.87617       | 0                 | 4159.926047        | 0                      | 8.230456013                          | 0.10%     |       | 437763.43       | 78592.67559              | 0                           |             |
| Sacramento | 2050          | LDA              | Aareate    | Aareate   | Gasoline       | 535267.829  | 19306735.1             | 19306735.1        | 0                 | 2465815.438        | 0                      | 530.3538921                          | 41.15%    |       | 182147047.71    | 5003559.388              | 0                           |             |
| Sacramento | 2050          | LDA              | Aareate    | Aareate   | Diesel         | 355.2497497 | 11248.29156            | 11248.29156       | 0                 | 1556.921773        | 0                      | 0.199475587                          | 0.02%     |       | 106120.64       | 1881.928198              | 0                           |             |
| Sacramento | 2050          | LDA              | Aareate    | Aareate   | Electricity    | 73451.22048 | 2854489.646            | 0                 | 2854489.646       | 342300.1648        | 1102068.597            | 0                                    | 0.3860825 | 6.08% |                 | 2693035.91               | 0                           | 10397332.34 |
| Sacramento | 2050          | LDA              | Aareate    | Aareate   | Plug-in Hybrid | 24997.71238 | 923317.5914            | 376108.4531       | 547209.1383       | 103365.5407        | 165273.4692            | 13.64315944                          | 0.3020298 | 1.97% |                 | 8710927.69               | 315984.8557                 | 1559252.474 |
| Sacramento | 2050          | LD1              | Aareate    | Aareate   | Gasoline       | 34303.67864 | 1161427.811            | 1161427.811       | 0                 | 154220.3862        | 0                      | 36.74642062                          | 2.48%     |       | 10957349.64     | 346679.6428              | 0                           |             |
| Sacramento | 2050          | LD1              | Aggregate  | Aggregate | Diesel         | 0.392666889 | 13.93313908            | 13.93313908       | 0                 | 1.803236098        | 0                      | 0.000461789                          | 0.00%     |       | 131.45          | 4.356688741              | 0                           |             |
| Sacramento | 2050          | LD1              | Aggregate  | Aggregate | Electricity    | 1062.636955 | 40650.86878            | 0                 | 40650.86878       | 4924.9947          | 15694.59045            | 0                                    | 0.3860825 | 0.09% |                 | 383515.68                | 0                           | 148068.7076 |
| Sacramento | 2050          | LD1              | Aggregate  | Aggregate | Plug-in Hybrid | 806.3665872 | 29353.12909            | 11941.25113       | 17411.87796       | 3334.325838        | 5258.906102            | 0.436626737                          | 0.3020298 | 0.06% |                 | 276928.53                | 10125.77325                 | 49614.51097 |
| Sacramento | 2050          | LD2              | Aareate    | Aareate   | Gasoline       | 301413.0274 | 10612338.31            | 10612338.31       | 0                 | 1377191.788        | 0                      | 348.9009108                          | 22.62%    |       | 100120816.99    | 3291663.272              | 0                           |             |
| Sacramento | 2050          | LD2              | Aareate    | Aareate   | Diesel         | 1150.458402 | 40665.30211            | 40665.30211       | 0                 | 5266.923981        | 0                      | 0.997944247                          | 0.09%     |       | 383651.85       | 9414.983807              | 0                           |             |
| Sacramento | 2050          | LD2              | Aareate    | Aareate   | Electricity    | 12145.84826 | 323392.6586            | 0                 | 323392.6586       | 56420.9549         | 124856.2573            | 0                                    | 0.3860825 | 0.69% |                 | 3051008.76               | 0                           | 1177941.196 |
| Sacramento | 2050          | LD2              | Aareate    | Aareate   | Plug-in Hybrid | 8271.923374 | 296406.345             | 120705.0759       | 175701.2691       | 34204.40315        | 53067.02001            | 4.429940827                          | 0.3020298 | 0.63% |                 | 2796409.67               | 102629.73                   | 500654.3558 |
| Sacramento | 2050          | LHDT1            | Aareate    | Aareate   | Gasoline       | 9607.541623 | 335226.2072            | 335226.2072       | 0                 | 143138.0549        | 0                      | 29.54795318                          | 0.71%     |       | 3162650.94      | 278766.576               | 0                           |             |
| Sacramento | 2050          | LHDT1            | Aggregate  | Aggregate | Diesel         | 6432.038333 | 220967.6453            | 220967.6453       | 0                 | 80906.95072        | 0                      | 13.06482864                          | 0.47%     |       | 2084692.41      | 123258.5392              | 0                           |             |
| Sacramento | 2050          | LHDT1            | Aggregate  | Aggregate | Electricity    | 12672.37441 | 530268.8272            | 0                 | 530268.8272       | 177256.9584        | 345215.2476            | 0                                    | 0.6510193 | 1.13% |                 | 5002756.85               | 0                           | 3256891.33  |
| Sacramento | 2050          | LHDT2            | Aggregate  | Aggregate | Gasoline       | 1180.195088 | 39947.15419            | 39947.15419       | 0                 | 17583.14832        | 0                      | 3.956315212                          | 0.09%     |       | 376876.57       | 37325.37541              | 0                           |             |
| Sacramento | 2050          | LHDT2            | Aggregate  | Aggregate | Diesel         | 3297.816655 | 106190.5778            | 106190.5778       | 0                 | 41482.38486        | 0                      | 7.376546293                          | 0.23%     |       | 1001842.11      | 69593.13018              | 0                           |             |
| Sacramento | 2050          | LHDT2            | Aareate    | Aareate   | Electricity    | 3238.162399 | 130803.7443            | 0                 | 130803.7443       | 42841.6861         | 83719.37422            | 0                                    | 0.6400381 | 0.28% |                 | 1224052.04               | 0                           | 789840.2691 |
| Sacramento | 2050          | MCV              | Aareate    | Aareate   | Gasoline       | 27310.05852 | 141466.7992            | 141466.7992       | 0                 | 54620.11703        | 0                      | 3.327200334                          | 0.30%     |       | 1334651.34      | 31390.06749              | 0                           |             |
| Sacramento | 2050          | MDV              | Aareate    | Aareate   | Gasoline       | 169892.7048 | 5800819.561            | 5800819.561       | 0                 | 771163.3285        | 0                      | 230.9047644                          | 12.36%    |       | 54727127.69     | 2178442.958              | 0                           |             |
| Sacramento | 2050          | MDV              | Aareate    | Aareate   | Diesel         | 1917.012882 | 63365.73345            | 63365.73345       | 0                 | 8586.261689        | 0                      | 2.025046107                          | 0.14%     |       | 597816.32       | 19105.05158              | 0                           |             |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Electricity    | 10825.60551 | 285507.2235            | 0                 | 285507.2235       | 50111.05987        | 110229.3525            | 0                                    | 0.3860825 | 0.61% |                 | 2693583.23               | 0                           | 1039945.44  |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Plug-in Hybrid | 5103.80498  | 178046.9463            | 72512.31863       | 10536.6276        | 21104.23369        | 31875.20704            | 2.701099776                          | 0.3020298 | 0.38% |                 | 1679781.16               | 62572.21675                 | 300722.7699 |
| Sacramento | 2050          | MH               | Aggregate  | Aggregate | Gasoline       | 1331.142463 | 14371.57793            | 14371.57793       | 0                 | 133.167492         | 0                      | 3.253659248                          | 0.03%     |       | 135586.91       | 30696.25304              | 0                           |             |
| Sacramento | 2050          | MH               | Aggregate  | Aggregate | Diesel         | 844.2231128 | 8051.189829            | 8051.189829       | 0                 | 84.42231128        | 0                      | 8.864332416                          | 0.02%     |       | 75957.97        | 8154.439214              | 0                           |             |
| Sacramento | 2050          | MHDT             | Aareate    | Aareate   | Gasoline       | 593.7450456 | 27922.72904            | 27922.72904       | 0                 | 11879.65087        | 0                      | 5.657103308                          | 0.06%     |       | 263433.60       | 47710.62701              | 0                           |             |
| Sacramento | 2050          | MHDT             | Aareate    | Aareate   | Diesel         | 14488.62211 | 645354.2545            | 645354.2545       | 0                 | 162814.1356        | 0                      | 66.03090669                          | 1.38%     |       | 6088516.34      | 622960.5703              | 0                           |             |
| Sacramento | 2050          | MHDT             | Aggregate  | Aggregate | Electricity    | 16323.819   | 717254.1057            | 0                 | 717254.1057       | 189139.3686        | 778954.9199            | 0                                    | 1.0860236 | 1.53% |                 | 6766846.76               | 0                           | 7348955.595 |
| Sacramento | 2050          | MHDT             | Aareate    | Aareate   | Natural Gas    | 351.3789864 | 14122.06184            | 14122.06184       | 0                 | 1992.652306        | 0                      | 2.031271425                          | 0.03%     |       | 133232.88       | 19163.78358              | 0                           |             |
| Sacramento | 2050          | OBUS             | Aareate    | Aareate   | Gasoline       | 166.3491671 | 5218.9814              | 5218.9814         | 0                 | 3328.314136        | 0                      | 0.94802572                           | 0.01%     |       | 49237.85        | 8944.03527               | 0                           |             |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Diesel         | 657.2726019 | 42651.77476            | 42651.77476       | 0                 | 7500.140259        | 0                      | 5.082523183                          | 0.09%     |       | 402392.99       | 47950.44774              | 0                           |             |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Electricity    | 106.0349324 | 6670.572167            | 0                 | 6670.572167       | 2121.546927        | 7399.560232            | 0                                    | 1.1092842 | 0.01% |                 | 62932.70                 | 0                           | 69810.2524  |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Natural Gas    | 82.84434882 | 4257.340519            | 4257.340519       | 0                 | 737.3147045        | 0                      | 0.509652913                          | 0.01%     |       | 40165.36        | 4808.258515              | 0                           |             |
| Sacramento | 2050          | SBUS             | Aareate    | Aareate   | Gasoline       | 71.15495225 | 3641.439774            | 3641.439774       | 0                 | 284.619809         | 0                      | 0.314993825                          | 0.01%     |       | 34354.72        | 2971.710991              | 0                           |             |
| Sacramento | 2050          | SBUS             | Aareate    | Aareate   | Diesel         | 467.70822   | 9772.380638            | 9772.380638       | 0                 | 6772.415026        | 0                      | 1.064682459                          | 0.02%     |       | 92196.34        | 10044.61736              | 0                           |             |
| Sacramento | 2050          | SBUS             | Aareate    | Aareate   | Electricity    | 573.1476799 | 15717.00024            | 0                 | 15717.00024       | 7534.355165        | 16557.16176            | 0                                    | 1.0534556 | 0.03% |                 | 148280.13                | 0                           | 156206.5319 |
| Sacramento | 2050          | SBUS             | Aggregate  | Aggregate | Natural Gas    | 22.39601265 | 456.3110951            | 456.3110951       | 0                 | 324.2942632        | 0                      | 0.073622788                          | 0.00%     |       | 4305.01         | 694.5852556              | 0                           |             |
| Sacramento | 2050          | UBUS             | Aareate    | Aareate   | Electricity    | 697.5938093 | 62072.92999            | 0                 | 62072.92999       | 2790.375237        | 108208.2701            | 0                                    | 1.7432441 | 0.13% |                 | 585619.52                | 0                           | 1020877.784 |
| Sacramento | 2050          | UBUS             | Aggregate  | Aggregate | Natural Gas    | 7.784412651 | 376.24185              | 376.24185         | 0                 | 31.1376506         | 0                      | 0.038263407                          | 0.00%     |       | 3549.61         | 360.9914685              | 0                           |             |

| Category                                                                                                                                                                                                                                                                                                               | Amount     | Units                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------|
| Diesel (heat content)                                                                                                                                                                                                                                                                                                  | 0.138      | MMBtu/gallon                 |
| Motor Gasoline                                                                                                                                                                                                                                                                                                         | 0.125      | MMBtu/gallon                 |
| Electricity (SMUD)                                                                                                                                                                                                                                                                                                     | 7.48       | MMBtu per MWh (or kWh)(w/Wh) |
| Source: The Climate Registry. 2024. 2024 Climate Registry Default Emission Factors: Table 2.1<br><a href="https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Documents_FINAL.pdf">https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Documents_FINAL.pdf</a> . |            |                              |
| Project Mobile Energy                                                                                                                                                                                                                                                                                                  |            |                              |
| Gallons/year, Diesel                                                                                                                                                                                                                                                                                                   | 2,761,648  | Diesel                       |
| Gallons/year, Gasoline                                                                                                                                                                                                                                                                                                 | 11,258,340 | Gasoline                     |
| KWh/year, Electricity                                                                                                                                                                                                                                                                                                  | 32,721,075 | Electricity                  |
| Gallons/year, Gasoline, Plug-in Hybrid                                                                                                                                                                                                                                                                                 | 491,313    | Plug-in Hybrid               |
| KWh/year, Electricity, Plug-in Hybrid                                                                                                                                                                                                                                                                                  | 2,410,244  | Plug-in Hybrid               |
| KWh/year, EV and Hybrid                                                                                                                                                                                                                                                                                                | 35,131,319 | EV + Hybrid                  |
| Gallons/year, Gasoline + Hybrid                                                                                                                                                                                                                                                                                        | 11,749,653 | Gasoline + Hybrid            |
| Gallons/year, Natural Gas                                                                                                                                                                                                                                                                                              | 103,620    | Natural Gas                  |
| MMBtu, Diesel                                                                                                                                                                                                                                                                                                          | 381,107    |                              |
| MMBtu, Gasoline                                                                                                                                                                                                                                                                                                        | 1,468,707  |                              |
| MMBtu, Electricity                                                                                                                                                                                                                                                                                                     | 262,668    |                              |
| Total MMBtu, Transportation                                                                                                                                                                                                                                                                                            | 2,112,482  |                              |

North West Specific Plan  
Energy Calculations

Operational Energy Consumption (Other than Mobile)

Conversion Factors

Sacramento Metropolitan Utility District (SMUD)

7.477 [MMBTU per MWh (or kBtu/kWh)]

Source: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/quarterly-fuel-and-energy-report-qfr-2>

Notes: kWh = kilowatt-hours; kBtu = thousand British thermal unit; MMBtu = million British thermal unit

Energy Demand by Land Use (CalEEMod output data)

| Existing or Project Land Use | Land Use                             | Electricity Demand (kWh/year) | Natural Gas Demand (kBtu/year) |
|------------------------------|--------------------------------------|-------------------------------|--------------------------------|
| Project                      | Apartments Low Rise                  | 217,521                       | 0                              |
| Project                      | Apartments Mid Rise                  | 35,702,388                    | 96,409,796                     |
| Project                      | Regional Shopping Center             | 10,649,630                    | 10,016,605                     |
| Project                      | General Office Building              | 18,113,465                    | 26,173,450                     |
| Project                      | Parking Lot                          | 6,052,301                     | 0                              |
| Existing                     | General Office Building              | 12,694,714                    | 18,343,496                     |
| Existing                     | Government Office Building           | 4,478,201                     | 6,470,868                      |
| Existing                     | Library                              | 337,161                       | 1,482,970                      |
| Existing                     | Place of Worship                     | 1,550,870                     | 6,920,475                      |
| Existing                     | General Heavy Industry               | 504,348                       | 2,218,325                      |
| Existing                     | Unrefrigerated Warehouse-No Rail     | 17,409,548                    | 6,810,374                      |
| Existing                     | Parking Lot                          | 188,708                       | 0                              |
| Existing                     | City Park                            | 0                             | 0                              |
| Existing                     | Fast Food Restaurant with Drive Thru | 1,095,479                     | 3,375,050                      |
| Existing                     | Health Club                          | 542,865                       | 2,387,740                      |
| Existing                     | Motel                                | 95,554                        | 753,765                        |
| Existing                     | Quality Restaurant                   | 374,092                       | 1,152,535                      |
| Existing                     | User Defined Recreational            | 0                             | 0                              |
| Existing                     | Apartments Low Rise                  | 3,671,674                     | 9,450,175                      |
| Existing                     | Condo/Townhouse                      | 24,911                        | 70,042                         |
| Existing                     | Single Family Housing                | 17,618                        | 78,962                         |
| Existing                     | Free-Standing Discount Superstore    | 1,134,797                     | 1,067,344                      |
| Existing                     | Home Improvement Superstore          | 1,957,854                     | 1,841,477                      |
| Existing                     | Regional Shopping Center             | 911,408                       | 857,233                        |
| Existing                     | Strip Mall                           | 3,600,166                     | 3,385,168                      |
| Existing                     | Supermarket                          | 28,987,625                    | 12,254,488                     |
|                              | <b>Total</b>                         | <b>150,247,394</b>            | <b>212,032,339</b>             |

Water Energy Demand by Land Use (CalEEMod output data)

| Existing or Project Land Use | Land Use                             | Electricity Intensity: Supply, Treat and Distribute (kWh/Mgal) | Electricity Intensity: Treatment (kWh/Mgal) | Indoor Water Usage (gal/year) | Outdoor Water Usage (gal/year) | Indoor Water Electricity Usage (kWh) | Outdoor Water Electricity Usage (kWh) | Total Water Electricity Usage (kWh) |
|------------------------------|--------------------------------------|----------------------------------------------------------------|---------------------------------------------|-------------------------------|--------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|
| Project                      | Apartments Low Rise                  | 1.612                                                          | 1.519                                       | 1,692,432                     | 438,698                        | 5,299                                | 707                                   | 6,006                               |
| Project                      | Apartments Mid Rise                  | 1.612                                                          | 1.519                                       | 254,287,908                   | 30,915,433                     | 796,175                              | 49,836                                | 846,011                             |
| Project                      | Regional Shopping Center             | 1.612                                                          | 1.519                                       | 84,764,392                    | 0                              | 251,839                              | 0                                     | 253,838                             |
| Project                      | General Office Building              | 1.612                                                          | 1.519                                       | 139,824,917                   | 0                              | 437,792                              | 0                                     | 437,792                             |
| Project                      | Parking Lot                          | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Existing                     | General Office Building              | 1.612                                                          | 1.519                                       | 97,995,279                    | 0                              | 306,823                              | 0                                     | 306,823                             |
| Existing                     | Government Office Building           | 1.612                                                          | 1.519                                       | 36,639,309                    | 0                              | 120,969                              | 0                                     | 120,969                             |
| Existing                     | Library                              | 1.612                                                          | 1.519                                       | 1,173,334                     | 0                              | 3,674                                | 0                                     | 3,674                               |
| Existing                     | Place of Worship                     | 1.612                                                          | 1.519                                       | 5,396,398                     | 0                              | 16,896                               | 0                                     | 16,896                              |
| Existing                     | General Heavy Industry               | 1.612                                                          | 1.519                                       | 12,973,125                    | 0                              | 40,619                               | 0                                     | 40,619                              |
| Existing                     | Unrefrigerated Warehouse-No Rail     | 1.612                                                          | 1.519                                       | 477,110,375                   | 0                              | 1,493,833                            | 0                                     | 1,493,833                           |
| Existing                     | Parking Lot                          | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Existing                     | City Park                            | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Existing                     | Fast Food Restaurant with Drive Thru | 1.612                                                          | 1.519                                       | 8,514,121                     | 0                              | 26,658                               | 0                                     | 26,658                              |
| Existing                     | Health Club                          | 1.612                                                          | 1.519                                       | 3,571,063                     | 0                              | 11,181                               | 0                                     | 11,181                              |
| Existing                     | Motel                                | 1.612                                                          | 1.519                                       | 1,598,107                     | 0                              | 5,004                                | 0                                     | 5,004                               |
| Existing                     | Quality Restaurant                   | 1.612                                                          | 1.519                                       | 2,907,853                     | 0                              | 9,104                                | 0                                     | 9,104                               |
| Existing                     | User Defined Recreational            | 1.612                                                          | 1.519                                       | 0                             | 0                              | 0                                    | 0                                     | 0                                   |
| Existing                     | Apartments Low Rise                  | 1.612                                                          | 1.519                                       | 26,162,178                    | 0                              | 81,914                               | 0                                     | 81,914                              |
| Existing                     | Condo/Townhouse                      | 1.612                                                          | 1.519                                       | 141,039                       | 0                              | 442                                  | 0                                     | 442                                 |
| Existing                     | Single Family Housing                | 1.612                                                          | 1.519                                       | 70,518                        | 399,881                        | 221                                  | 645                                   | 865                                 |
| Existing                     | Free-Standing Discount Superstore    | 1.612                                                          | 1.519                                       | 8,079,071                     | 0                              | 28,113                               | 0                                     | 28,113                              |
| Existing                     | Home Improvement Superstore          | 1.612                                                          | 1.519                                       | 15,491,527                    | 0                              | 48,504                               | 0                                     | 48,504                              |
| Existing                     | Regional Shopping Center             | 1.612                                                          | 1.519                                       | 7,211,701                     | 0                              | 22,580                               | 0                                     | 22,580                              |
| Existing                     | Strip Mall                           | 1.612                                                          | 1.519                                       | 28,486,810                    | 0                              | 89,192                               | 0                                     | 89,192                              |
| Existing                     | Supermarket                          | 1.612                                                          | 1.519                                       | 7,509,500                     | 0                              | 23,512                               | 0                                     | 23,512                              |
|                              | <b>Total</b>                         | <b>-</b>                                                       | <b>-</b>                                    | <b>1,224,002,943</b>          | <b>31,754,013</b>              | <b>3,832,353</b>                     | <b>-</b>                              | <b>3,883,541</b>                    |

Electricity Intensity Factors are CalEEMod defaults.

North Watt Specific Plan  
Energy Calculations

Operational Energy Consumption (Other than Mobile)  
Total Area+Water Energy Demand

| Existing or Project Land Use | Land Use                             | Electricity Demand (kWh/year) | Mitigated Natural Gas Demand (kBTU/year) | Total Energy Demand (MMBTU/year) |
|------------------------------|--------------------------------------|-------------------------------|------------------------------------------|----------------------------------|
| Project                      | Apartments Low Rise                  | 243,527                       | 611,332                                  | 2,432                            |
| Project                      | Apartments Mid Rise                  | 36,548,399                    | 96,409,796                               | 369,673                          |
| Project                      | Regional Shopping Center             | 10,913,468                    | 10,016,605                               | 91,614                           |
| Project                      | General Office Building              | 18,551,276                    | 26,173,450                               | 164,877                          |
| Project                      | Parking Lot                          | 4,052,801                     | 0                                        | 46,256                           |
| Existing                     | General Office Building              | 13,001,537                    | 18,343,486                               | 115,553                          |
| Existing                     | Government Office Building           | 4,599,181                     | 6,470,868                                | 40,858                           |
| Existing                     | Library                              | 340,834                       | 1,482,970                                | 4,031                            |
| Existing                     | Place of Worship                     | 1,567,866                     | 6,820,475                                | 18,541                           |
| Existing                     | General Heavy Industry               | 544,966                       | 2,218,325                                | 6,293                            |
| Existing                     | Unrefrigerated Warehouse-No Rail     | 18,903,381                    | 6,810,374                                | 148,146                          |
| Existing                     | Parking Lot                          | 188,708                       | 0                                        | 1,411                            |
| Existing                     | City Park                            | 0                             | 0                                        | 0                                |
| Existing                     | Fast Food Restaurant with Drive Thru | 1,122,136                     | 3,375,050                                | 11,765                           |
| Existing                     | Health Club                          | 554,046                       | 2,387,740                                | 6,530                            |
| Existing                     | Motel                                | 104,557                       | 753,765                                  | 1,536                            |
| Existing                     | Quality Restaurant                   | 383,196                       | 1,152,535                                | 4,018                            |
| Existing                     | User Defined Recreational            | 0                             | 0                                        | 0                                |
| Existing                     | Apartments Low Rise                  | 3,753,587                     | 9,450,175                                | 37,515                           |
| Existing                     | Condo/Townhouse                      | 25,352                        | 70,042                                   | 260                              |
| Existing                     | Single Family Housing                | 18,682                        | 78,562                                   | 218                              |
| Existing                     | Free-standing Discount Superstore    | 1,162,911                     | 1,061,244                                | 9,762                            |
| Existing                     | Home Improvement Superstore          | 2,006,358                     | 1,841,477                                | 16,842                           |
| Existing                     | Regional Shopping Center             | 933,988                       | 857,233                                  | 7,840                            |
| Existing                     | Strip Mall                           | 3,689,358                     | 3,386,168                                | 30,971                           |
| Existing                     | Supermarket                          | 28,921,017                    | 12,254,469                               | 228,489                          |
|                              | <b>Total</b>                         | <b>154,130,834</b>            | <b>212,092,339</b>                       | <b>1,364,430</b>                 |

Construction Energy Consumption

Percentage of Full Buildout Assumed in Maximum Year

20%

| Vehicle Type  | Total Max Construction Phase MT CO2 | Fuel Type | Emission Factor (lb CO <sub>2</sub> /gallon) | Max Construction Period Gallons | Full Buildout Gallons |
|---------------|-------------------------------------|-----------|----------------------------------------------|---------------------------------|-----------------------|
| Offroad Equip | 2328.5                              | Diesel    | 22.45                                        | 228,597                         | 1,142,984             |
| Worker        | 1553.5                              | Gasoline  | 18.73                                        | 182,803                         | 914,013               |
| Vendor        | 715.9                               | Diesel    | 22.45                                        | 70,282                          | 351,409               |
| Hauling       | 55.0                                | Diesel    | 22.45                                        | 5,398                           | 26,988                |
|               |                                     |           | <b>Total Diesel</b>                          | <b>304,278</b>                  | <b>1,521,381</b>      |
|               |                                     |           | <b>Total Gasoline</b>                        | <b>182,803</b>                  | <b>914,013</b>        |

Notes:

1. Emission factor source: U.S. Energy Information Administration released September 118, 2024 ([https://www.eia.gov/environment/emissions/co2\\_vol\\_mass.php](https://www.eia.gov/environment/emissions/co2_vol_mass.php))

| Phase                                                             | Source        | Total Max Construction Phase MT CO <sub>2</sub> |
|-------------------------------------------------------------------|---------------|-------------------------------------------------|
| 3.1 Demolition (2027) - Unmitigated                               | Offroad Equip | 404.15                                          |
|                                                                   | Worker        | 17.62                                           |
|                                                                   | Hauling       | 54.98                                           |
| 3.3 Site Preparation (2027) - Unmitigated                         | Offroad Equip | 96.12                                           |
|                                                                   | Worker        | 3.16                                            |
| 3.5 Grading (2027) - Unmitigated                                  | Offroad Equip | 329.21                                          |
|                                                                   | Worker        | 9.94                                            |
| 3.7 Building Construction (2027) - Unmitigated                    | Offroad Equip | 282.70                                          |
|                                                                   | Worker        | 1373.04                                         |
|                                                                   | Vendor        | 712.95                                          |
| 3.9 Paving (2027) - Unmitigated                                   | Offroad Equip | 51.41                                           |
|                                                                   | Worker        | 5.08                                            |
| 3.11 Architectural Coating (2027) - Unmitigated                   | Offroad Equip | 4.54                                            |
|                                                                   | Worker        | 79.21                                           |
| 3.1 Linear, Grubbing & Land Clearing (2027) - Unmitigated         | Offroad Equip | 11.6                                            |
|                                                                   | Worker        | 2.1                                             |
| 3.3 Linear, Grading & Excavation (2027) - Unmitigated             | Offroad Equip | 689.4                                           |
|                                                                   | Worker        | 35.7                                            |
|                                                                   | Vendor        | 2.9                                             |
| 3.5 Linear, Drainage, Utilities, & Sub-Grade (2027) - Unmitigated | Offroad Equip | 402.8                                           |
|                                                                   | Worker        | 20.3                                            |
| 3.7 Linear, Paving (2027) - Unmitigated                           | Offroad Equip | 56.7                                            |
|                                                                   | Worker        | 7.4                                             |

Modeled by AECOM in 2025.

North Watt Specific Plan  
Operational Transportation Energy Consumption - Project Operations

Source: EMFAC2021 (v1.0.2) Emissions Inventory  
Region Type: County  
Region: Sacramento

Calendar Year: 2050  
Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, kWh/day for Energy Consumption

Onroad Annual  
VMT:  
635,235,050

| Region     | Calendar Year | Vehicle Category | Model Year | Speed     | Fuel           | Population  | Total VMT<br>miles/day | CVMT<br>miles/day | EVMT<br>miles/day | Trips<br>trips/day | Energy                 | Fuel Consumption | Kwh/mile    | % VMT        | Project Annual | Project Annual Fuel      | Project Annual Electricity |
|------------|---------------|------------------|------------|-----------|----------------|-------------|------------------------|-------------------|-------------------|--------------------|------------------------|------------------|-------------|--------------|----------------|--------------------------|----------------------------|
|            |               |                  |            |           |                |             |                        |                   |                   |                    | Consumption<br>kWh/day | 1000 gallons/day |             |              | VMT            | Consumption<br>(gallons) | Consumption                |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Gasoline       | 0.788572172 | 96.20923179            | 96.20923179       | 0                 | 15.77775201        | 0                      | 0.020138002      | 0.00%       | 1302.72      | 272.6773406    | 0                        |                            |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Diesel         | 11228.40195 | 1443077.573            | 1443077.573       | 0                 | 161919.9506        | 0                      | 196.0150222      | 3.08%       | 19539900.35  | 2654128.976    | 0                        |                            |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Electricity    | 5703.030955 | 413789.8294            | 0                 | 413789.8294       | 51037.39387        | 775377.5222            | 0                | 1.8738438   | 0.88%        | 5602894.94     | 0                        | 10498950.16                |
| Sacramento | 2050          | HHDT             | Aggregate  | Aggregate | Natural Gas    | 719.0771983 | 46400.87617            | 46400.87617       | 0                 | 4159.936047        | 0                      | 8.330456013      | 0.10%       | 628288.12    | 112798.0113    | 0                        |                            |
| Sacramento | 2050          | LDA              | Aggregate  | Aggregate | Gasoline       | 535287.829  | 19306735.1             | 19306735.1        | 0                 | 2465815.438        | 0                      | 530.3538921      | 41.15%      | 261421622.09 | 7181223.237    | 0                        |                            |
| Sacramento | 2050          | LDA              | Aggregate  | Aggregate | Diesel         | 355.2497497 | 11248.29156            | 11248.29156       | 0                 | 1556.921773        | 0                      | 0.199475587      | 0.02%       | 152306.78    | 2700.966529    | 0                        |                            |
| Sacramento | 2050          | LDA              | Aggregate  | Aggregate | Electricity    | 73451.22048 | 2854489.546            | 0                 | 2854489.546       | 342300.1548        | 1102068.597            | 0                | 0.3860825   | 6.08%        | 38651036.00    | 0                        | 14922489.94                |
| Sacramento | 2050          | LDA              | Aggregate  | Aggregate | Plug-in Hybrid | 24997.71238 | 923317.5914            | 376108.4531       | 547209.1383       | 103365.5407        | 165273.4692            | 13.64315944      | 1.97%       | 12502123.28  | 453508.7149    | 2237874.927              |                            |
| Sacramento | 2050          | LDT1             | Aggregate  | Aggregate | Gasoline       | 34303.67864 | 1161427.811            | 1161427.811       | 0                 | 154220.3862        | 0                      | 36.74642062      | 2.48%       | 15726239.61  | 497562.5776    | 0                        |                            |
| Sacramento | 2050          | LDT1             | Aggregate  | Aggregate | Diesel         | 0.392666889 | 13.93313908            | 13.93313908       | 0                 | 1.803260698        | 0                      | 0.000461789      | 0.00%       | 188.66       | 6.252819641    | 0                        |                            |
| Sacramento | 2050          | LDT1             | Aggregate  | Aggregate | Electricity    | 1062.636955 | 40650.86878            | 0                 | 40650.86878       | 4924.9947          | 15694.59045            | 0                | 0.3860825   | 0.09%        | 550430.51      | 0                        | 212511.6065                |
| Sacramento | 2050          | LDT1             | Aggregate  | Aggregate | Plug-in Hybrid | 806.3665872 | 29353.12909            | 11941.25113       | 17411.87796       | 3334.325938        | 5258.906102            | 0                | 0.436626737 | 0.3020298    | 397454.18      | 14532.74209              | 71207.88451                |
| Sacramento | 2050          | LDT2             | Aggregate  | Aggregate | Gasoline       | 301413.0274 | 10612338.31            | 10612338.31       | 0                 | 1377191.788        | 0                      | 348.9009108      | 22.62%      | 143695693.73 | 4724270.652    | 0                        |                            |
| Sacramento | 2050          | LDT2             | Aggregate  | Aggregate | Diesel         | 1150.458402 | 40665.30211            | 40665.30211       | 0                 | 5266.923981        | 0                      | 0.997944247      | 0.09%       | 550625.94    | 13512.60078    | 0                        |                            |
| Sacramento | 2050          | LDT2             | Aggregate  | Aggregate | Electricity    | 3221.652626 | 12145.84826            | 0                 | 323392.6586       | 56420.9549         | 124856.2573            | 0                | 0.3860825   | 0.69%        | 4378877.78     | 0                        | 1690608.232                |
| Sacramento | 2050          | LDT2             | Aggregate  | Aggregate | Plug-in Hybrid | 8271.923374 | 296406.345             | 120705.0759       | 175701.2691       | 34204.40315        | 53067.02001            | 4.429940827      | 0.3020298   | 0.63%        | 4013471.31     | 147296.5432              | 718550.6185                |
| Sacramento | 2050          | LHD1             | Aggregate  | Aggregate | Gasoline       | 9607.541623 | 335226.2072            | 335226.2072       | 0                 | 143138.0549        | 0                      | 29.54795318      | 0.71%       | 4539109.20   | 400092.1859    | 0                        |                            |
| Sacramento | 2050          | LHD1             | Aggregate  | Aggregate | Diesel         | 6432.038333 | 220967.6453            | 220967.6453       | 0                 | 80906.95072        | 0                      | 13.06482864      | 0.47%       | 2991998.39   | 176903.4836    | 0                        |                            |
| Sacramento | 2050          | LHD1             | Aggregate  | Aggregate | Electricity    | 12672.37441 | 530268.8272            | 0                 | 530268.8272       | 177526.9584        | 345215.2476            | 0                | 0.6510193   | 1.13%        | 7180071.42     | 0                        | 4674365.164                |
| Sacramento | 2050          | LHD2             | Aggregate  | Aggregate | Gasoline       | 1180.195088 | 39947.15419            | 39947.15419       | 0                 | 17583.14832        | 0                      | 3.956315212      | 0.09%       | 540901.91    | 53570.23518    | 0                        |                            |
| Sacramento | 2050          | LHD2             | Aggregate  | Aggregate | Diesel         | 3297.816655 | 106190.5778            | 106190.5778       | 0                 | 41482.38486        | 0                      | 7.376546293      | 0.23%       | 1437868.78   | 99881.6572     | 0                        |                            |
| Sacramento | 2050          | LHD2             | Aggregate  | Aggregate | Electricity    | 3238.162399 | 130803.7443            | 0                 | 130803.7443       | 42841.6861         | 83719.37422            | 0                | 0.6400381   | 0.28%        | 1771139.80     | 0                        | 1133596.876                |
| Sacramento | 2050          | MCY              | Aggregate  | Aggregate | Gasoline       | 27310.05852 | 141466.7992            | 141466.7992       | 0                 | 54620.11703        | 0                      | 3.327200334      | 0.30%       | 1915522.22   | 45051.74508    | 0                        |                            |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Gasoline       | 169892.7048 | 5800819.561            | 5800819.561       | 0                 | 771163.3285        | 0                      | 230.9047647      | 12.36%      | 78545629.33  | 3126551.316    | 0                        |                            |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Diesel         | 1917.012882 | 63365.73345            | 63365.73345       | 0                 | 8586.261689        | 0                      | 2.025046104      | 0.14%       | 857999.69    | 27420.00837    | 0                        |                            |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Electricity    | 10825.60551 | 285507.2235            | 0                 | 285507.2235       | 50111.05987        | 110229.3525            | 0                | 0.3860825   | 0.61%        | 3865892.45     | 0                        | 1492553.556                |
| Sacramento | 2050          | MDV              | Aggregate  | Aggregate | Plug-in Hybrid | 5103.80498  | 178049.9463            | 72512.31863       | 105536.6276       | 21104.23359        | 31875.20704            | 2.701099776      | 0.3020298   | 0.38%        | 2410860.46     | 88005.08115              | 431604.2192                |
| Sacramento | 2050          | MH               | Aggregate  | Aggregate | Gasoline       | 1331.142463 | 14371.57793            | 14371.57793       | 0                 | 133.167492         | 0                      | 3.253659248      | 0.03%       | 194597.44    | 49405.96667    | 0                        |                            |
| Sacramento | 2050          | MH               | Aggregate  | Aggregate | Diesel         | 844.2231128 | 8051.189829            | 8051.189829       | 0                 | 84.42231128        | 0                      | 0.864332416      | 0.02%       | 109016.63    | 11703.43826    | 0                        |                            |
| Sacramento | 2050          | MHDT             | Aggregate  | Aggregate | Gasoline       | 593.7450456 | 27922.72904            | 27922.72904       | 0                 | 11879.65087        | 0                      | 5.057103308      | 0.06%       | 378085.94    | 68475.38657    | 0                        |                            |
| Sacramento | 2050          | MHDT             | Aggregate  | Aggregate | Diesel         | 14488.62211 | 645394.2545            | 645394.2545       | 0                 | 162814.1356        | 0                      | 66.03090669      | 1.38%       | 8738378.35   | 894087.3038    | 0                        |                            |
| Sacramento | 2050          | MHDT             | Aggregate  | Aggregate | Electricity    | 16323.819   | 717254.1057            | 0                 | 717254.1057       | 189139.3686        | 778954.9199            | 0                | 1.0860236   | 1.53%        | 9711933.72     | 0                        | 10547389.69                |
| Sacramento | 2050          | MHDT             | Aggregate  | Aggregate | Natural Gas    | 351.3780864 | 14122.06184            | 14122.06184       | 0                 | 1992.652306        | 0                      | 2.031271425      | 0.03%       | 191218.88    | 27504.30189    | 0                        |                            |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Gasoline       | 166.3491671 | 5218.9814              | 5218.9814         | 0                 | 3328.314136        | 0                      | 0.94802572       | 0.01%       | 70667.29     | 12836.68213    | 0                        |                            |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Diesel         | 657.2726019 | 42651.77476            | 42651.77476       | 0                 | 7500.140259        | 0                      | 5.082552318      | 0.09%       | 577523.65    | 68819.58278    | 0                        |                            |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Electricity    | 106.0349324 | 6670.572167            | 0                 | 6670.572167       | 2121.546827        | 7399.560232            | 0                | 1.1092842   | 0.01%        | 90322.46       | 0                        | 100193.276                 |
| Sacramento | 2050          | OBUS             | Aggregate  | Aggregate | Natural Gas    | 82.84434892 | 4257.340519            | 4257.340519       | 0                 | 737.3147045        | 0                      | 0.509652913      | 0.01%       | 57646.25     | 6900.922942    | 0                        |                            |
| Sacramento | 2050          | SBUS             | Aggregate  | Aggregate | Gasoline       | 71.15495225 | 3641.439774            | 3641.439774       | 0                 | 284.619809         | 0                      | 0.314983825      | 0.01%       | 49306.68     | 4265.153911    | 0                        |                            |
| Sacramento | 2050          | SBUS             | Aggregate  | Aggregate | Diesel         | 467.70822   | 9772.380638            | 9772.380638       | 0                 | 6772.415026        | 0                      | 1.064682459      | 0.02%       | 132322.30    | 14416.2653     | 0                        |                            |
| Sacramento | 2050          | SBUS             | Aggregate  | Aggregate | Electricity    | 573.1476799 | 15717.00024            | 0                 | 15717.00024       | 7534.355165        | 16557.16176            | 0                | 1.0534556   | 0.03%        | 212815.04      | 0                        | 224191.1986                |
| Sacramento | 2050          | UBUS             | Aggregate  | Aggregate | Natural Gas    | 456.3110951 | 456.3110951            | 456.3110951       | 0                 | 324.2942632        | 0                      | 0.073622788      | 0.00%       | 6178.65      | 996.8846955    | 0                        |                            |
| Sacramento | 2050          | UBUS             | Aggregate  | Aggregate | Electricity    | 697.5938093 | 62072.92999            | 0                 | 62072.92999       | 2790.375237        | 108208.2701            | 0                | 1.7432441   | 0.13%        | 840494.57      | 0                        | 1465187.21                 |
| Sacramento | 2050          | UBUS             | Aggregate  | Aggregate | Natural Gas    | 7.784412651 | 376.24185              | 376.24185         | 0                 | 31.1376506         | 0                      | 0.038263407      | 0.00%       | 5094.48      | 518.1032382    | 0                        |                            |

| Category                                                                                                                                                                                                                                                                                                             | Amount     | Units                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| Diesel (Heat content)                                                                                                                                                                                                                                                                                                | 0.138      | MMBtu/gallon                |
| Motor Gasoline                                                                                                                                                                                                                                                                                                       | 0.125      | MMBtu/gallon                |
| Electricity (SMUD)                                                                                                                                                                                                                                                                                                   | 7.48       | MMBtu per MWh (or kBtu/kWh) |
| Source: The Climate Registry, 2024. 2024 Climate Registry Default Emission Factors: Table 2.1<br><a href="https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Documents_FINAL.pdf">https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Documents_FINAL.pdf</a> |            |                             |
| Project Mobile Energy                                                                                                                                                                                                                                                                                                |            |                             |
| Gallons/year, Diesel                                                                                                                                                                                                                                                                                                 | 3,963,581  | Diesel                      |
| Gallons/year, Gasoline                                                                                                                                                                                                                                                                                               | 16,158,228 | Gasoline                    |
| KWh/year, Electricity                                                                                                                                                                                                                                                                                                | 46,962,037 | Electricity                 |
| Gallons/year, Gasoline, Plug-in Hybrid                                                                                                                                                                                                                                                                               | 705,143    | Plug-in Hybrid              |
| KWh/year, Electricity, Plug-in Hybrid                                                                                                                                                                                                                                                                                | 3,459,238  | Plug-in Hybrid              |
| KWh/year, EV and Hybrid                                                                                                                                                                                                                                                                                              | 50,421,275 | EV + Hybrid                 |
| Gallons/year, Gasoline + Hybrid                                                                                                                                                                                                                                                                                      | 16,863,371 | Gasoline + Hybrid           |
| Gallons/year, Natural Gas                                                                                                                                                                                                                                                                                            | 148,718    | Natural Gas                 |
| MMBtu, Diesel                                                                                                                                                                                                                                                                                                        | 546,974    |                             |
| MMBtu, Gasoline                                                                                                                                                                                                                                                                                                      | 2,107,921  |                             |
| MMBtu, Electricity                                                                                                                                                                                                                                                                                                   | 376,987    |                             |
| Total MMBtu, Transportation                                                                                                                                                                                                                                                                                          | 3,031,882  |                             |

# North Watt SP - Project Construction Unmit Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                      |
|-----------------------------|--------------------------------------------|
| Project Name                | North Watt SP - Project Construction Unmit |
| Construction Start Date     | 1/1/2027                                   |
| Lead Agency                 | —                                          |
| Land Use Scale              | Project/site                               |
| Analysis Level for Defaults | County                                     |
| Windspeed (m/s)             | 3.5                                        |
| Precipitation (days)        | 39                                         |
| Location                    | 38.6729879394575, -121.38420471265154      |
| County                      | Sacramento                                 |
| City                        | Unincorporated                             |
| Air District                | Sacramento Metropolitan AQMD               |
| Air Basin                   | Sacramento Valley                          |
| TAZ                         | 631                                        |
| EDFZ                        | 13                                         |
| Electric Utility            | Sacramento Municipal Utility District      |
| Gas Utility                 | Pacific Gas & Electric                     |
| App Version                 | 2022.1.1.35                                |

## 1.2. Land Use Types

| Land Use Subtype    | Size | Unit          | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---------------------|------|---------------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Apartments Low Rise | 10.0 | Dwelling Unit | 0.59        | 10,600                | 5,100                  | —                              | 28         | —           |

|                            |       |               |      |           |         |   |       |   |
|----------------------------|-------|---------------|------|-----------|---------|---|-------|---|
| Apartments Mid Rise        | 1,442 | Dwelling Unit | 42   | 1,384,320 | 362,200 | — | 4,038 | — |
| Regional Shopping Center   | 228   | 1000sqft      | 0.00 | 227,524   | 0.00    | — | —     | — |
| Government Office Building | 157   | 1000sqft      | 0.00 | 157,342   | 0.00    | — | —     | — |
| Parking Lot                | 3,525 | Space         | 32   | 0.00      | 0.00    | — | —     | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG | ROG | NOx | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R   | CO2e   |
|---------------------|-----|-----|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|-----|--------|
| Daily, Summer (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| Unmit.              | 231 | 229 | 77  | 151 | 0.18 | 2.6   | 20    | 23    | 2.4    | 5.4    | 7.8    | —    | 36,453 | 36,453 | 1.2  | 1.6  | 67  | 37,035 |
| Daily, Winter (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| Unmit.              | 235 | 232 | 107 | 160 | 0.23 | 3.8   | 28    | 32    | 3.5    | 9.4    | 13     | —    | 40,146 | 40,146 | 1.5  | 1.7  | 1.7 | 40,695 |
| Average Daily (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| Unmit.              | 53  | 51  | 44  | 75  | 0.10 | 1.4   | 12    | 14    | 1.3    | 3.3    | 4.6    | —    | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| Annual (Max)        | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| Unmit.              | 9.6 | 9.3 | 8.0 | 14  | 0.02 | 0.25  | 2.2   | 2.5   | 0.23   | 0.61   | 0.84   | —    | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG | ROG | NOx | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R   | CO2e   |
|----------------------|-----|-----|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|-----|--------|
| Daily - Summer (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 231 | 229 | 77  | 151 | 0.18 | 2.6   | 20    | 23    | 2.4    | 5.4    | 7.8    | —    | 36,453 | 36,453 | 1.2  | 1.6  | 67  | 37,035 |
| Daily - Winter (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 235 | 232 | 107 | 160 | 0.23 | 3.8   | 28    | 32    | 3.5    | 9.4    | 13     | —    | 40,146 | 40,146 | 1.5  | 1.7  | 1.7 | 40,695 |
| Average Daily        | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 53  | 51  | 44  | 75  | 0.10 | 1.4   | 12    | 14    | 1.3    | 3.3    | 4.6    | —    | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| Annual               | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 9.6 | 9.3 | 8.0 | 14  | 0.02 | 0.25  | 2.2   | 2.5   | 0.23   | 0.61   | 0.84   | —    | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |

## 3. Construction Emissions Details

### 3.1. Demolition (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|-----|-----|-----|----|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 2.6 | 2.2 | 20  | 19 | 0.03 | 0.80  | —     | 0.80  | 0.73   | —      | 0.73   | —    | 3,427 | 3,427 | 0.14 | 0.03 | — | 3,439 |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 2.6  | 2.2  | 20   | 19   | 0.03    | 0.80 | —    | 0.80 | 0.73 | —    | 0.73 | — | 3,427 | 3,427 | 0.14 | 0.03    | —    | 3,439 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.9  | 1.6  | 14   | 13   | 0.02    | 0.57 | —    | 0.57 | 0.52 | —    | 0.52 | — | 2,441 | 2,441 | 0.10 | 0.02    | —    | 2,449 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.27 | 0.27 | —    | 0.04 | 0.04 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.34 | 0.29 | 2.6  | 2.4  | < 0.005 | 0.10 | —    | 0.10 | 0.10 | —    | 0.10 | — | 404   | 404   | 0.02 | < 0.005 | —    | 406   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.05 | 0.05 | —    | 0.01 | 0.01 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |

|                     |      |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.06 | 0.06    | 0.04 | 0.80 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 164  | 164  | < 0.005 | 0.01    | 0.54 | 166  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.79 | 0.32 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.89 | 490  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05 | 0.05    | 0.05 | 0.58 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.85 | 0.33 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.02 | 489  |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.04 | 0.03    | 0.03 | 0.43 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 106  | 106  | < 0.005 | < 0.005 | 0.17 | 108  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.04 | 0.01    | 0.59 | 0.23 | < 0.005 | 0.01    | 0.09 | 0.09 | 0.01    | 0.02    | 0.03    | — | 332  | 332  | 0.03    | 0.05    | 0.27 | 349  |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | 0.01    | 0.01 | 0.08 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 18   | 18   | < 0.005 | < 0.005 | 0.03 | 18   |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.01 | < 0.005 | 0.11 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01    | — | 55   | 55   | < 0.005 | 0.01    | 0.05 | 58   |

### 3.3. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 3.6  | 3.1  | 28   | 28   | 0.05    | 1.2  | —    | 1.2  | 1.1  | —    | 1.1  | — | 5,298 | 5,298 | 0.21    | 0.04    | —    | 5,316 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 7.7  | 7.7  | —    | 3.9  | 3.9  | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.40 | 0.33 | 3.1  | 3.1  | 0.01    | 0.13 | —    | 0.13 | 0.12 | —    | 0.12 | — | 581   | 581   | 0.02    | < 0.005 | —    | 583   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.84 | 0.84 | —    | 0.43 | 0.43 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.07 | 0.06 | 0.56 | 0.57 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 96    | 96    | < 0.005 | < 0.005 | —    | 96    |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.15 | 0.15 | —    | 0.08 | 0.08 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |



|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.06    | 0.06    | 0.68 | 0.00 | 0.00 | 0.18    | 0.18    | 0.00 | 0.04    | 0.04    | — | 170  | 170  | < 0.005 | 0.01    | 0.02    | 172  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.08 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 19   | 19   | < 0.005 | < 0.005 | 0.03    | 19   |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.2  | 3.2  | < 0.005 | < 0.005 | < 0.005 | 3.2  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.5. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|-----|-----|-----|----|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 3.5 | 2.9 | 26  | 27 | 0.06 | 1.0   | —     | 1.0   | 0.96   | —      | 0.96   | —    | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 3.6  | 3.6  | —    | 1.4  | 1.4  | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 3.5  | 2.9  | 26   | 27   | 0.06    | 1.0  | —    | 1.0  | 0.96 | —    | 0.96 | — | 6,598 | 6,598 | 0.27 | 0.05    | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 3.6  | 3.6  | —    | 1.4  | 1.4  | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 1.1  | 0.89 | 7.7  | 8.2  | 0.02    | 0.31 | —    | 0.31 | 0.29 | —    | 0.29 | — | 1,988 | 1,988 | 0.08 | 0.02    | —    | 1,995 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 1.1  | 1.1  | —    | 0.43 | 0.43 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.19 | 0.16 | 1.4  | 1.5  | < 0.005 | 0.06 | —    | 0.06 | 0.05 | —    | 0.05 | — | 329   | 329   | 0.01 | < 0.005 | —    | 330   |

|                             |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|-----------------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Dust From Material Movement | —       | —       | —       | —    | —    | —    | 0.20 | 0.20 | —    | 0.08    | 0.08    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 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 | 0.00 |
| Offsite                     | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.08    | 0.08    | 0.05    | 1.1  | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 219  | 219  | < 0.005 | 0.01    | 0.72 | 222  |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Daily, Winter (Max)         | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.07    | 0.06    | 0.07    | 0.78 | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 194  | 194  | < 0.005 | 0.01    | 0.02 | 197  |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Average Daily               | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.02    | 0.02    | 0.02    | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01    | 0.01    | — | 60   | 60   | < 0.005 | < 0.005 | 0.09 | 61   |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Annual                      | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.9  | 9.9  | < 0.005 | < 0.005 | 0.02 | 10   |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |

### 3.7. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.2  | 1.0  | 9.4  | 13   | 0.02    | 0.34  | —     | 0.34  | 0.31   | —      | 0.31   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.2  | 1.0  | 9.4  | 13   | 0.02    | 0.34  | —     | 0.34  | 0.31   | —      | 0.31   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.88 | 0.73 | 6.7  | 9.2  | 0.02    | 0.24  | —     | 0.24  | 0.22   | —      | 0.22   | —    | 1,708 | 1,708 | 0.07 | 0.01    | —    | 1,713 |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.16 | 0.13 | 1.2  | 1.7  | < 0.005 | 0.04  | —     | 0.04  | 0.04   | —      | 0.04   | —    | 283   | 283   | 0.01 | < 0.005 | —    | 284   |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                     |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 4.6  | 4.5  | 3.0  | 62   | 0.00 | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 12,773 | 12,773 | 0.18 | 0.45 | 42   | 12,953 |
| Vendor              | 0.64 | 0.22 | 10   | 3.9  | 0.04 | 0.08 | 1.7  | 1.7  | 0.08 | 0.45 | 0.53 | — | 6,046  | 6,046  | 0.37 | 0.89 | 13   | 6,332  |
| Hauling             | 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 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 4.2  | 3.7  | 3.8  | 45   | 0.00 | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 11,346 | 11,346 | 0.26 | 0.47 | 1.1  | 11,494 |
| Vendor              | 0.63 | 0.21 | 11   | 4.0  | 0.04 | 0.09 | 1.7  | 1.7  | 0.09 | 0.45 | 0.53 | — | 6,045  | 6,045  | 0.37 | 0.89 | 0.35 | 6,318  |
| Hauling             | 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 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 3.0  | 2.6  | 2.4  | 33   | 0.00 | 0.00 | 8.2  | 8.2  | 0.00 | 1.9  | 1.9  | — | 8,293  | 8,293  | 0.15 | 0.32 | 13   | 8,405  |
| Vendor              | 0.45 | 0.16 | 7.5  | 2.8  | 0.03 | 0.06 | 1.2  | 1.2  | 0.06 | 0.31 | 0.37 | — | 4,306  | 4,306  | 0.26 | 0.63 | 4.1  | 4,505  |
| Hauling             | 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 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 0.54 | 0.48 | 0.44 | 6.0  | 0.00 | 0.00 | 1.5  | 1.5  | 0.00 | 0.35 | 0.35 | — | 1,373  | 1,373  | 0.02 | 0.05 | 2.1  | 1,391  |
| Vendor              | 0.08 | 0.03 | 1.4  | 0.51 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.07 | — | 713    | 713    | 0.04 | 0.10 | 0.68 | 746    |
| Hauling             | 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 | 0.00   |

### 3.9. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipm     | 0.88 | 0.74 | 6.9  | 10.0 | 0.01    | 0.30 | —    | 0.30 | 0.27 | —    | 0.27 | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.88 | 0.74 | 6.9  | 10.0 | 0.01    | 0.30 | —    | 0.30 | 0.27 | —    | 0.27 | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.18 | 0.15 | 1.4  | 2.0  | < 0.005 | 0.06 | —    | 0.06 | 0.06 | —    | 0.06 | — | 311   | 311   | 0.01    | < 0.005 | —    | 312   |
| Paving              | 0.23 | 0.23 | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.03 | 0.03 | 0.26 | 0.37 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 51    | 51    | < 0.005 | < 0.005 | —    | 52    |
| Paving              | 0.04 | 0.04 | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.06    | 0.06    | 0.04    | 0.80 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04    | 0.04    | — | 164  | 164  | < 0.005 | 0.01    | 0.54 | 166  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05    | 0.05    | 0.05    | 0.58 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.12 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01    | 0.01    | — | 31   | 31   | < 0.005 | < 0.005 | 0.05 | 31   |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.1  | 5.1  | < 0.005 | < 0.005 | 0.01 | 5.2  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |

### 3.11. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Off-Road Equipm        | 0.14 | 0.11 | 0.83 | 1.1  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 215  | 215  | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.14 | 0.11 | 0.83 | 1.1  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 215  | 215  | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Average Daily          | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.03 | 0.02 | 0.17 | 0.23 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 27   | 27   | < 0.005 | < 0.005 | —    | 28   |
| Architectural Coatings | 44   | 44   | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Annual                 | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |



|                        |      |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|------------------------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment     | 0.01 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 4.5   | 4.5   | < 0.005 | < 0.005 | —    | 4.6   |
| Architectural Coatings | 8.1  | 8.1     | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck           | 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 | 0.00  |
| Offsite                | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)    | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                 | 0.92 | 0.90    | 0.59 | 12   | 0.00    | 0.00    | 2.4  | 2.4     | 0.00    | 0.55 | 0.55    | — | 2,555 | 2,555 | 0.04    | 0.09    | 8.4  | 2,591 |
| Vendor                 | 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 | 0.00  |
| Hauling                | 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 | 0.00  |
| Daily, Winter (Max)    | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                 | 0.84 | 0.74    | 0.77 | 9.1  | 0.00    | 0.00    | 2.4  | 2.4     | 0.00    | 0.55 | 0.55    | — | 2,269 | 2,269 | 0.05    | 0.09    | 0.22 | 2,299 |
| Vendor                 | 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 | 0.00  |
| Hauling                | 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 | 0.00  |
| Average Daily          | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                 | 0.17 | 0.15    | 0.14 | 1.9  | 0.00    | 0.00    | 0.47 | 0.47    | 0.00    | 0.11 | 0.11    | — | 478   | 478   | 0.01    | 0.02    | 0.75 | 485   |
| Vendor                 | 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 | 0.00  |
| Hauling                | 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 | 0.00  |
| Annual                 | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                 | 0.03 | 0.03    | 0.03 | 0.35 | 0.00    | 0.00    | 0.09 | 0.09    | 0.00    | 0.02 | 0.02    | — | 79    | 79    | < 0.005 | < 0.005 | 0.12 | 80    |
| Vendor                 | 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 | 0.00  |
| Hauling                | 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 | 0.00  |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date   | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 1/1/2027   | 12/30/2027 | 5.0           | 260                 | —                 |
| Site Preparation      | Site Preparation      | 1/1/2027   | 2/25/2027  | 5.0           | 40                  | —                 |
| Grading               | Grading               | 1/1/2027   | 6/3/2027   | 5.0           | 110                 | —                 |
| Building Construction | Building Construction | 1/1/2027   | 12/30/2027 | 5.0           | 260                 | —                 |
| Paving                | Paving                | 1/1/2027   | 4/15/2027  | 5.0           | 75                  | —                 |
| Architectural Coating | Architectural Coating | 1/1/2027   | 4/15/2027  | 5.0           | 75                  | —                 |

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

| Phase Name       | Equipment Type           | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|--------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition       | Rubber Tired Dozers      | Diesel    | Average     | 2.0            | 8.0           | 367        | 0.40        |
| Demolition       | Excavators               | Diesel    | Average     | 3.0            | 8.0           | 36         | 0.38        |
| Demolition       | Concrete/Industrial Saws | Diesel    | Average     | 1.00           | 8.0           | 33         | 0.73        |
| Site Preparation | Rubber Tired Dozers      | Diesel    | Average     | 3.0            | 8.0           | 367        | 0.40        |

|                       |                               |        |         |      |     |     |      |
|-----------------------|-------------------------------|--------|---------|------|-----|-----|------|
| Site Preparation      | Tractors/Loaders/Back         | Diesel | Average | 4.0  | 8.0 | 84  | 0.37 |
| Grading               | Graders                       | Diesel | Average | 1.00 | 8.0 | 148 | 0.41 |
| Grading               | Excavators                    | Diesel | Average | 2.0  | 8.0 | 36  | 0.38 |
| Grading               | Tractors/Loaders/Back<br>hoes | Diesel | Average | 2.0  | 8.0 | 84  | 0.37 |
| Grading               | Scrapers                      | Diesel | Average | 2.0  | 8.0 | 423 | 0.48 |
| Grading               | Rubber Tired Dozers           | Diesel | Average | 1.00 | 8.0 | 367 | 0.40 |
| Building Construction | Forklifts                     | Diesel | Average | 3.0  | 8.0 | 82  | 0.20 |
| Building Construction | Generator Sets                | Diesel | Average | 1.00 | 8.0 | 14  | 0.74 |
| Building Construction | Cranes                        | Diesel | Average | 1.00 | 7.0 | 367 | 0.29 |
| Building Construction | Welders                       | Diesel | Average | 1.00 | 8.0 | 46  | 0.45 |
| Building Construction | Tractors/Loaders/Back<br>hoes | Diesel | Average | 3.0  | 7.0 | 84  | 0.37 |
| Paving                | Pavers                        | Diesel | Average | 2.0  | 8.0 | 81  | 0.42 |
| Paving                | Paving Equipment              | Diesel | Average | 2.0  | 8.0 | 89  | 0.36 |
| Paving                | Rollers                       | Diesel | Average | 2.0  | 8.0 | 36  | 0.38 |
| Architectural Coating | Air Compressors               | Diesel | Average | 1.00 | 6.0 | 37  | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name       | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|--------------|-----------------------|----------------|---------------|
| Demolition       | Worker       | 15                    | 14             | LDA,LDT1,LDT2 |
| Demolition       | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Demolition       | Hauling      | 6.6                   | 20             | HHDT          |
| Demolition       | Onsite truck | —                     | —              | HHDT          |
| Site Preparation | Worker       | 18                    | 14             | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Site Preparation | Hauling      | 0.00                  | 20             | HHDT          |

|                       |              |       |     |               |
|-----------------------|--------------|-------|-----|---------------|
| Site Preparation      | Onsite truck | —     | —   | HHDT          |
| Grading               | Worker       | 20    | 14  | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Grading               | Hauling      | 0.00  | 20  | HHDT          |
| Grading               | Onsite truck | —     | —   | HHDT          |
| Building Construction | Worker       | 1,169 | 14  | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 218   | 8.8 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00  | 20  | HHDT          |
| Building Construction | Onsite truck | —     | —   | HHDT          |
| Paving                | Worker       | 15    | 14  | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00  | 20  | HHDT          |
| Paving                | Onsite truck | —     | —   | HHDT          |
| Architectural Coating | Worker       | 234   | 14  | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00  | 20  | HHDT          |
| Architectural Coating | Onsite truck | —     | —   | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 2,824,713                                | 941,571                                  | 577,299                                      | 192,433                                      | 82,916                      |

## 5.6. Dust Mitigation

## 5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-----------------------------------------------|---------------------|
| Demolition       | 0.00                   | 0.00                   | 0.00                 | 148,935                                       | 0.00                |
| Site Preparation | —                      | —                      | 60                   | 0.00                                          | 0.00                |
| Grading          | —                      | —                      | 330                  | 0.00                                          | 0.00                |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                                          | 32                  |

## 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |

## 5.7. Construction Paving

| Phase Name | Land Use                   | Area Paved (acres) | % Asphalt |
|------------|----------------------------|--------------------|-----------|
| Paving     | Apartments Low Rise        | —                  | 0%        |
| Paving     | Apartments Mid Rise        | —                  | 0%        |
| Paving     | Regional Shopping Center   | 0.00               | 0%        |
| Paving     | Government Office Building | 0.00               | 0%        |
| Paving     | Parking Lot                | 32                 | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

## kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2027 | 0.00         | 375 | 0.01 | < 0.005 |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 22                          | annual days of extreme heat                |
| Extreme Precipitation        | 6.3                         | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |



Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Wildfire                | 1   | 1   | 1   | 2   |
| Flooding                | 1   | 1   | 1   | 2   |
| Drought                 | 1   | 1   | 1   | 2   |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1   | 1   | 1   | 2   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58                              |
| AQ-PM               | 37                              |
| AQ-DPM              | 27                              |
| Drinking Water      | 61                              |
| Lead Risk Housing   | 92                              |
| Pesticides          | 7.2                             |
| Toxic Releases      | 22                              |
| Traffic             | 47                              |
| Effect Indicators   | —                               |
| CleanUp Sites       | 81                              |
| Groundwater         | 99                              |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 62   |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 53   |
| Sensitive Population            | —    |
| Asthma                          | 93   |
| Cardio-vascular                 | 69   |
| Low Birth Weights               | 79   |
| Socioeconomic Factor Indicators | —    |
| Education                       | 63   |
| Housing                         | 73   |
| Linguistic                      | 39   |
| Poverty                         | 92   |
| Unemployment                    | 66   |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 10.16296677                     |
| Employed               | 6.274862056                     |
| Median HI              | 6.672654947                     |
| Education              | —                               |
| Bachelor's or higher   | 19.73566021                     |
| High school enrollment | 12.79353266                     |
| Preschool enrollment   | 42.65366354                     |
| Transportation         | —                               |
| Auto Access            | 24.89413576                     |
| Active commuting       | 74.06646991                     |

|                                              |             |
|----------------------------------------------|-------------|
| Social                                       | —           |
| 2-parent households                          | 39.00936738 |
| Voting                                       | 13.02450917 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 41.6527653  |
| Park access                                  | 47.42717824 |
| Retail density                               | 38.27794174 |
| Supermarket access                           | 72.19299371 |
| Tree canopy                                  | 82.34312845 |
| Housing                                      | —           |
| Homeownership                                | 23.13614782 |
| Housing habitability                         | 24.91979982 |
| Low-inc homeowner severe housing cost burden | 13.20415758 |
| Low-inc renter severe housing cost burden    | 43.7957141  |
| Uncrowded housing                            | 25.445913   |
| Health Outcomes                              | —           |
| Insured adults                               | 37.80315668 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 5.9         |
| High Blood Pressure                          | 0.0         |
| Cancer (excluding skin)                      | 0.0         |
| Asthma                                       | 0.0         |
| Coronary Heart Disease                       | 0.0         |
| Chronic Obstructive Pulmonary Disease        | 0.0         |
| Diagnosed Diabetes                           | 0.0         |
| Life Expectancy at Birth                     | 5.5         |
| Cognitively Disabled                         | 4.0         |
| Physically Disabled                          | 5.6         |

|                                       |      |
|---------------------------------------|------|
| Heart Attack ER Admissions            | 16.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 96.7 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 16.3 |
| Elderly                               | 67.6 |
| English Speaking                      | 43.4 |
| Foreign-born                          | 30.0 |
| Outdoor Workers                       | 48.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 51.3 |
| Traffic Density                       | 47.2 |
| Traffic Access                        | 66.1 |
| Other Indices                         | —    |
| Hardship                              | 80.5 |
| Other Decision Support                | —    |
| 2016 Voting                           | 6.4  |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83                              |
| Healthy Places Index Score for Project Location (b)                                 | 13                              |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

### 8.1. Justifications

| Screen                            | Justification                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Land Use                          | Per Development Assumptions spreadsheet. Assume 20% of development within maximum construction year.               |
| Construction: Construction Phases | Scale schedule for 1 year construction duration. Assume demolition occurs throughout worst-case construction year. |

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8.1. Justifications

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                    |
|-----------------------------|------------------------------------------|
| Project Name                | North Watt SP - Project Construction Mit |
| Construction Start Date     | 1/1/2027                                 |
| Lead Agency                 | —                                        |
| Land Use Scale              | Project/site                             |
| Analysis Level for Defaults | County                                   |
| Windspeed (m/s)             | 3.5                                      |
| Precipitation (days)        | 39                                       |
| Location                    | 38.6729879394575, -121.38420471265154    |
| County                      | Sacramento                               |
| City                        | Unincorporated                           |
| Air District                | Sacramento Metropolitan AQMD             |
| Air Basin                   | Sacramento Valley                        |
| TAZ                         | 631                                      |
| EDFZ                        | 13                                       |
| Electric Utility            | Sacramento Municipal Utility District    |
| Gas Utility                 | Pacific Gas & Electric                   |
| App Version                 | 2022.1.1.35                              |

## 1.2. Land Use Types

| Land Use Subtype    | Size | Unit          | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---------------------|------|---------------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Apartments Low Rise | 10.0 | Dwelling Unit | 0.59        | 10,600                | 5,100                  | —                              | 28         | —           |

|                            |       |               |      |           |         |   |       |   |
|----------------------------|-------|---------------|------|-----------|---------|---|-------|---|
| Apartments Mid Rise        | 1,442 | Dwelling Unit | 42   | 1,384,320 | 362,200 | — | 4,038 | — |
| Regional Shopping Center   | 228   | 1000sqft      | 0.00 | 227,524   | 0.00    | — | —     | — |
| Government Office Building | 157   | 1000sqft      | 0.00 | 157,342   | 0.00    | — | —     | — |
| Parking Lot                | 3,525 | Space         | 32   | 0.00      | 0.00    | — | —     | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector       | #   | Measure Title             |
|--------------|-----|---------------------------|
| Construction | C-5 | Use Advanced Engine Tiers |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG | ROG | NOx | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4 | N2O | R   | CO2e   |
|---------------------|-----|-----|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|-----|-----|-----|--------|
| Daily, Summer (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —   | —   | —   | —      |
| Unmit.              | 231 | 229 | 77  | 151 | 0.18 | 2.6   | 20    | 23    | 2.4    | 5.4    | 7.8    | —    | 36,453 | 36,453 | 1.2 | 1.6 | 67  | 37,035 |
| Mit.                | 226 | 225 | 31  | 162 | 0.18 | 0.61  | 20    | 21    | 0.59   | 5.4    | 6.0    | —    | 36,453 | 36,453 | 1.2 | 1.6 | 67  | 37,035 |
| % Reduced           | 2%  | 2%  | 60% | -7% | —    | 76%   | —     | 9%    | 75%    | —      | 23%    | —    | —      | —      | —   | —   | —   | —      |
| Daily, Winter (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —   | —   | —   | —      |
| Unmit.              | 235 | 232 | 107 | 160 | 0.23 | 3.8   | 28    | 32    | 3.5    | 9.4    | 13     | —    | 40,146 | 40,146 | 1.5 | 1.7 | 1.7 | 40,695 |
| Mit.                | 226 | 224 | 35  | 170 | 0.23 | 0.72  | 28    | 29    | 0.70   | 9.4    | 10     | —    | 40,146 | 40,146 | 1.5 | 1.7 | 1.7 | 40,695 |
| % Reduced           | 4%  | 3%  | 67% | -7% | —    | 81%   | —     | 10%   | 80%    | —      | 22%    | —    | —      | —      | —   | —   | —   | —      |

|                     |     |     |     |     |      |      |     |     |      |      |      |   |        |        |      |      |     |        |
|---------------------|-----|-----|-----|-----|------|------|-----|-----|------|------|------|---|--------|--------|------|------|-----|--------|
| Average Daily (Max) | —   | —   | —   | —   | —    | —    | —   | —   | —    | —    | —    | — | —      | —      | —    | —    | —   | —      |
| Unmit.              | 53  | 51  | 44  | 75  | 0.10 | 1.4  | 12  | 14  | 1.3  | 3.3  | 4.6  | — | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| Mit.                | 50  | 49  | 19  | 79  | 0.10 | 0.32 | 12  | 13  | 0.31 | 3.3  | 3.6  | — | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| % Reduced           | 6%  | 5%  | 57% | -5% | —    | 76%  | —   | 8%  | 75%  | —    | 21%  | — | —      | —      | —    | —    | —   | —      |
| Annual (Max)        | —   | —   | —   | —   | —    | —    | —   | —   | —    | —    | —    | — | —      | —      | —    | —    | —   | —      |
| Unmit.              | 9.6 | 9.3 | 8.0 | 14  | 0.02 | 0.25 | 2.2 | 2.5 | 0.23 | 0.61 | 0.84 | — | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |
| Mit.                | 9.0 | 8.9 | 3.5 | 14  | 0.02 | 0.06 | 2.2 | 2.3 | 0.06 | 0.61 | 0.66 | — | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |
| % Reduced           | 6%  | 5%  | 57% | -5% | —    | 76%  | —   | 8%  | 75%  | —    | 21%  | — | —      | —      | —    | —    | —   | —      |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG | ROG | NOx | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R   | CO2e   |
|----------------------|-----|-----|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|-----|--------|
| Daily - Summer (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 231 | 229 | 77  | 151 | 0.18 | 2.6   | 20    | 23    | 2.4    | 5.4    | 7.8    | —    | 36,453 | 36,453 | 1.2  | 1.6  | 67  | 37,035 |
| Daily - Winter (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 235 | 232 | 107 | 160 | 0.23 | 3.8   | 28    | 32    | 3.5    | 9.4    | 13     | —    | 40,146 | 40,146 | 1.5  | 1.7  | 1.7 | 40,695 |
| Average Daily        | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 53  | 51  | 44  | 75  | 0.10 | 1.4   | 12    | 14    | 1.3    | 3.3    | 4.6    | —    | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| Annual               | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 9.6 | 9.3 | 8.0 | 14  | 0.02 | 0.25  | 2.2   | 2.5   | 0.23   | 0.61   | 0.84   | —    | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG | ROG | NOx | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R   | CO2e   |
|----------------------|-----|-----|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|-----|--------|
| Daily - Summer (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 226 | 225 | 31  | 162 | 0.18 | 0.61  | 20    | 21    | 0.59   | 5.4    | 6.0    | —    | 36,453 | 36,453 | 1.2  | 1.6  | 67  | 37,035 |
| Daily - Winter (Max) | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 226 | 224 | 35  | 170 | 0.23 | 0.72  | 28    | 29    | 0.70   | 9.4    | 10     | —    | 40,146 | 40,146 | 1.5  | 1.7  | 1.7 | 40,695 |
| Average Daily        | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 50  | 49  | 19  | 79  | 0.10 | 0.32  | 12    | 13    | 0.31   | 3.3    | 3.6    | —    | 20,682 | 20,682 | 0.74 | 1.1  | 18  | 21,042 |
| Annual               | —   | —   | —   | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —   | —      |
| 2027                 | 9.0 | 8.9 | 3.5 | 14  | 0.02 | 0.06  | 2.2   | 2.3   | 0.06   | 0.61   | 0.66   | —    | 3,424  | 3,424  | 0.12 | 0.18 | 3.1 | 3,484  |

## 3. Construction Emissions Details

### 3.1. Demolition (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|-----|-----|-----|----|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 2.6 | 2.2 | 20  | 19 | 0.03 | 0.80  | —     | 0.80  | 0.73   | —      | 0.73   | —    | 3,427 | 3,427 | 0.14 | 0.03 | — | 3,439 |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 2.6  | 2.2  | 20   | 19   | 0.03    | 0.80 | —    | 0.80 | 0.73 | —    | 0.73 | — | 3,427 | 3,427 | 0.14 | 0.03    | —    | 3,439 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.9  | 1.6  | 14   | 13   | 0.02    | 0.57 | —    | 0.57 | 0.52 | —    | 0.52 | — | 2,441 | 2,441 | 0.10 | 0.02    | —    | 2,449 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.27 | 0.27 | —    | 0.04 | 0.04 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.34 | 0.29 | 2.6  | 2.4  | < 0.005 | 0.10 | —    | 0.10 | 0.10 | —    | 0.10 | — | 404   | 404   | 0.02 | < 0.005 | —    | 406   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.05 | 0.05 | —    | 0.01 | 0.01 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |

|                     |      |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.06 | 0.06    | 0.04 | 0.80 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 164  | 164  | < 0.005 | 0.01    | 0.54 | 166  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.79 | 0.32 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.89 | 490  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05 | 0.05    | 0.05 | 0.58 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.85 | 0.33 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.02 | 489  |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.04 | 0.03    | 0.03 | 0.43 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 106  | 106  | < 0.005 | < 0.005 | 0.17 | 108  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.04 | 0.01    | 0.59 | 0.23 | < 0.005 | 0.01    | 0.09 | 0.09 | 0.01    | 0.02    | 0.03    | — | 332  | 332  | 0.03    | 0.05    | 0.27 | 349  |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | 0.01    | 0.01 | 0.08 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 18   | 18   | < 0.005 | < 0.005 | 0.03 | 18   |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.01 | < 0.005 | 0.11 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01    | — | 55   | 55   | < 0.005 | 0.01    | 0.05 | 58   |

### 3.2. Demolition (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road Equipm     | 0.78 | 0.70 | 5.2  | 18   | 0.03    | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 3,427 | 3,427 | 0.14 | 0.03    | —    | 3,439 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.78 | 0.70 | 5.2  | 18   | 0.03    | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 3,427 | 3,427 | 0.14 | 0.03    | —    | 3,439 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.38 | 0.38 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.56 | 0.50 | 3.7  | 13   | 0.02    | 0.10 | —    | 0.10 | 0.10 | —    | 0.10 | — | 2,441 | 2,441 | 0.10 | 0.02    | —    | 2,449 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.27 | 0.27 | —    | 0.04 | 0.04 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.10 | 0.09 | 0.68 | 2.4  | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 404   | 404   | 0.02 | < 0.005 | —    | 406   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.05 | 0.05 | —    | 0.01 | 0.01 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |

|                     |      |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Offsite             | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.06 | 0.06    | 0.04 | 0.80 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 164  | 164  | < 0.005 | 0.01    | 0.54 | 166  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.79 | 0.32 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.89 | 490  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05 | 0.05    | 0.05 | 0.58 | 0.00    | 0.00    | 0.15 | 0.15 | 0.00    | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.05 | 0.01    | 0.85 | 0.33 | < 0.005 | 0.01    | 0.13 | 0.13 | 0.01    | 0.03    | 0.04    | — | 466  | 466  | 0.04    | 0.07    | 0.02 | 489  |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.04 | 0.03    | 0.03 | 0.43 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 106  | 106  | < 0.005 | < 0.005 | 0.17 | 108  |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.04 | 0.01    | 0.59 | 0.23 | < 0.005 | 0.01    | 0.09 | 0.09 | 0.01    | 0.02    | 0.03    | — | 332  | 332  | 0.03    | 0.05    | 0.27 | 349  |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | 0.01    | 0.01 | 0.08 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 18   | 18   | < 0.005 | < 0.005 | 0.03 | 18   |
| Vendor              | 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 | 0.00 |
| Hauling             | 0.01 | < 0.005 | 0.11 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01    | — | 55   | 55   | < 0.005 | 0.01    | 0.05 | 58   |

### 3.3. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 3.6  | 3.1  | 28   | 28   | 0.05    | 1.2  | —    | 1.2  | 1.1  | —    | 1.1  | — | 5,298 | 5,298 | 0.21    | 0.04    | —    | 5,316 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 7.7  | 7.7  | —    | 3.9  | 3.9  | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.40 | 0.33 | 3.1  | 3.1  | 0.01    | 0.13 | —    | 0.13 | 0.12 | —    | 0.12 | — | 581   | 581   | 0.02    | < 0.005 | —    | 583   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.84 | 0.84 | —    | 0.43 | 0.43 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.07 | 0.06 | 0.56 | 0.57 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 96    | 96    | < 0.005 | < 0.005 | —    | 96    |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.15 | 0.15 | —    | 0.08 | 0.08 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.06    | 0.06    | 0.68 | 0.00 | 0.00 | 0.18    | 0.18    | 0.00 | 0.04    | 0.04    | — | 170  | 170  | < 0.005 | 0.01    | 0.02    | 172  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.08 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 19   | 19   | < 0.005 | < 0.005 | 0.03    | 19   |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.2  | 3.2  | < 0.005 | < 0.005 | < 0.005 | 3.2  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.4. Site Preparation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                             |      |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|-----------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipm ent         | 0.50 | 0.50 | 2.6  | 28   | 0.05    | 0.10    | —    | 0.10    | 0.10    | —    | 0.10    | — | 5,298 | 5,298 | 0.21    | 0.04    | —    | 5,316 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 7.7  | 7.7     | —       | 3.9  | 3.9     | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent         | 0.05 | 0.05 | 0.28 | 3.1  | 0.01    | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 581   | 581   | 0.02    | < 0.005 | —    | 583   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.84 | 0.84    | —       | 0.43 | 0.43    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent         | 0.01 | 0.01 | 0.05 | 0.57 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 96    | 96    | < 0.005 | < 0.005 | —    | 96    |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.15 | 0.15    | —       | 0.08 | 0.08    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.06    | 0.06    | 0.68 | 0.00 | 0.00 | 0.18    | 0.18    | 0.00 | 0.04    | 0.04    | — | 170  | 170  | < 0.005 | 0.01    | 0.02    | 172  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.08 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 19   | 19   | < 0.005 | < 0.005 | 0.03    | 19   |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.2  | 3.2  | < 0.005 | < 0.005 | < 0.005 | 3.2  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.5. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                    | TOG | ROG | NOx | CO | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-----------------------------|-----|-----|-----|----|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite                      | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max)         | —   | —   | —   | —  | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment          | 3.5 | 2.9 | 26  | 27 | 0.06 | 1.0   | —     | 1.0   | 0.96   | —      | 0.96   | —    | 6,598 | 6,598 | 0.27 | 0.05 | — | 6,621 |
| Dust From Material Movement | —   | —   | —   | —  | —    | —     | 3.6   | 3.6   | —      | 1.4    | 1.4    | —    | —     | —     | —    | —    | — | —     |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Onsite truck                | 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 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipm ent         | 3.5  | 2.9  | 26   | 27   | 0.06    | 1.0  | —    | 1.0  | 0.96 | —    | 0.96 | — | 6,598 | 6,598 | 0.27 | 0.05    | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 3.6  | 3.6  | —    | 1.4  | 1.4  | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipm ent         | 1.1  | 0.89 | 7.7  | 8.2  | 0.02    | 0.31 | —    | 0.31 | 0.29 | —    | 0.29 | — | 1,988 | 1,988 | 0.08 | 0.02    | —    | 1,995 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 1.1  | 1.1  | —    | 0.43 | 0.43 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipm ent         | 0.19 | 0.16 | 1.4  | 1.5  | < 0.005 | 0.06 | —    | 0.06 | 0.05 | —    | 0.05 | — | 329   | 329   | 0.01 | < 0.005 | —    | 330   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.20 | 0.20 | —    | 0.08 | 0.08 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |

|                     |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Offsite             | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.08    | 0.08    | 0.05    | 1.1  | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 219  | 219  | < 0.005 | 0.01    | 0.72 | 222  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07    | 0.06    | 0.07    | 0.78 | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 194  | 194  | < 0.005 | 0.01    | 0.02 | 197  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.02    | 0.02    | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01    | 0.01    | — | 60   | 60   | < 0.005 | < 0.005 | 0.09 | 61   |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.9  | 9.9  | < 0.005 | < 0.005 | 0.02 | 10   |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |

### 3.6. Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road                    | 0.81 | 0.78 | 4.7  | 35   | 0.06    | 0.16 | —    | 0.16 | 0.16 | —    | 0.16 | — | 6,598 | 6,598 | 0.27 | 0.05    | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 3.6  | 3.6  | —    | 1.4  | 1.4  | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.81 | 0.78 | 4.7  | 35   | 0.06    | 0.16 | —    | 0.16 | 0.16 | —    | 0.16 | — | 6,598 | 6,598 | 0.27 | 0.05    | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 3.6  | 3.6  | —    | 1.4  | 1.4  | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.25 | 0.23 | 1.4  | 11   | 0.02    | 0.05 | —    | 0.05 | 0.05 | —    | 0.05 | — | 1,988 | 1,988 | 0.08 | 0.02    | —    | 1,995 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 1.1  | 1.1  | —    | 0.43 | 0.43 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.04 | 0.04 | 0.26 | 1.9  | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 329   | 329   | 0.01 | < 0.005 | —    | 330   |

|                             |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|-----------------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Dust From Material Movement | —       | —       | —       | —    | —    | —    | 0.20 | 0.20 | —    | 0.08    | 0.08    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 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 | 0.00 |
| Offsite                     | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.08    | 0.08    | 0.05    | 1.1  | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 219  | 219  | < 0.005 | 0.01    | 0.72 | 222  |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Daily, Winter (Max)         | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.07    | 0.06    | 0.07    | 0.78 | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05    | 0.05    | — | 194  | 194  | < 0.005 | 0.01    | 0.02 | 197  |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Average Daily               | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | 0.02    | 0.02    | 0.02    | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01    | 0.01    | — | 60   | 60   | < 0.005 | < 0.005 | 0.09 | 61   |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |
| Annual                      | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.9  | 9.9  | < 0.005 | < 0.005 | 0.02 | 10   |
| Vendor                      | 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 | 0.00 |
| Hauling                     | 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 | 0.00 |

### 3.7. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.2  | 1.0  | 9.4  | 13   | 0.02    | 0.34  | —     | 0.34  | 0.31   | —      | 0.31   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.2  | 1.0  | 9.4  | 13   | 0.02    | 0.34  | —     | 0.34  | 0.31   | —      | 0.31   | —    | 2,397 | 2,397 | 0.10 | 0.02    | —    | 2,405 |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.88 | 0.73 | 6.7  | 9.2  | 0.02    | 0.24  | —     | 0.24  | 0.22   | —      | 0.22   | —    | 1,708 | 1,708 | 0.07 | 0.01    | —    | 1,713 |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.16 | 0.13 | 1.2  | 1.7  | < 0.005 | 0.04  | —     | 0.04  | 0.04   | —      | 0.04   | —    | 283   | 283   | 0.01 | < 0.005 | —    | 284   |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                     |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 4.6  | 4.5  | 3.0  | 62   | 0.00 | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 12,773 | 12,773 | 0.18 | 0.45 | 42   | 12,953 |
| Vendor              | 0.64 | 0.22 | 10   | 3.9  | 0.04 | 0.08 | 1.7  | 1.7  | 0.08 | 0.45 | 0.53 | — | 6,046  | 6,046  | 0.37 | 0.89 | 13   | 6,332  |
| Hauling             | 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 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 4.2  | 3.7  | 3.8  | 45   | 0.00 | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 11,346 | 11,346 | 0.26 | 0.47 | 1.1  | 11,494 |
| Vendor              | 0.63 | 0.21 | 11   | 4.0  | 0.04 | 0.09 | 1.7  | 1.7  | 0.09 | 0.45 | 0.53 | — | 6,045  | 6,045  | 0.37 | 0.89 | 0.35 | 6,318  |
| Hauling             | 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 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 3.0  | 2.6  | 2.4  | 33   | 0.00 | 0.00 | 8.2  | 8.2  | 0.00 | 1.9  | 1.9  | — | 8,293  | 8,293  | 0.15 | 0.32 | 13   | 8,405  |
| Vendor              | 0.45 | 0.16 | 7.5  | 2.8  | 0.03 | 0.06 | 1.2  | 1.2  | 0.06 | 0.31 | 0.37 | — | 4,306  | 4,306  | 0.26 | 0.63 | 4.1  | 4,505  |
| Hauling             | 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 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 0.54 | 0.48 | 0.44 | 6.0  | 0.00 | 0.00 | 1.5  | 1.5  | 0.00 | 0.35 | 0.35 | — | 1,373  | 1,373  | 0.02 | 0.05 | 2.1  | 1,391  |
| Vendor              | 0.08 | 0.03 | 1.4  | 0.51 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.07 | — | 713    | 713    | 0.04 | 0.10 | 0.68 | 746    |
| Hauling             | 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 | 0.00   |

### 3.8. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |        |        |      |         |      |        |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Off-Road Equipm     | 0.51 | 0.45 | 3.1  | 15   | 0.02    | 0.10 | —    | 0.10 | 0.09 | —    | 0.09 | — | 2,397  | 2,397  | 0.10 | 0.02    | —    | 2,405  |
| Onsite truck        | 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 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipm ent | 0.51 | 0.45 | 3.1  | 15   | 0.02    | 0.10 | —    | 0.10 | 0.09 | —    | 0.09 | — | 2,397  | 2,397  | 0.10 | 0.02    | —    | 2,405  |
| Onsite truck        | 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 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipm ent | 0.36 | 0.32 | 2.2  | 11   | 0.02    | 0.07 | —    | 0.07 | 0.07 | —    | 0.07 | — | 1,708  | 1,708  | 0.07 | 0.01    | —    | 1,713  |
| Onsite truck        | 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 | 0.00   |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipm ent | 0.07 | 0.06 | 0.40 | 1.9  | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 283    | 283    | 0.01 | < 0.005 | —    | 284    |
| Onsite truck        | 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 | 0.00   |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Worker              | 4.6  | 4.5  | 3.0  | 62   | 0.00    | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 12,773 | 12,773 | 0.18 | 0.45    | 42   | 12,953 |
| Vendor              | 0.64 | 0.22 | 10   | 3.9  | 0.04    | 0.08 | 1.7  | 1.7  | 0.08 | 0.45 | 0.53 | — | 6,046  | 6,046  | 0.37 | 0.89    | 13   | 6,332  |
| Hauling             | 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 | 0.00   |

|                     |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 4.2  | 3.7  | 3.8  | 45   | 0.00 | 0.00 | 12   | 12   | 0.00 | 2.8  | 2.8  | — | 11,346 | 11,346 | 0.26 | 0.47 | 1.1  | 11,494 |
| Vendor              | 0.63 | 0.21 | 11   | 4.0  | 0.04 | 0.09 | 1.7  | 1.7  | 0.09 | 0.45 | 0.53 | — | 6,045  | 6,045  | 0.37 | 0.89 | 0.35 | 6,318  |
| Hauling             | 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 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 3.0  | 2.6  | 2.4  | 33   | 0.00 | 0.00 | 8.2  | 8.2  | 0.00 | 1.9  | 1.9  | — | 8,293  | 8,293  | 0.15 | 0.32 | 13   | 8,405  |
| Vendor              | 0.45 | 0.16 | 7.5  | 2.8  | 0.03 | 0.06 | 1.2  | 1.2  | 0.06 | 0.31 | 0.37 | — | 4,306  | 4,306  | 0.26 | 0.63 | 4.1  | 4,505  |
| Hauling             | 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 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Worker              | 0.54 | 0.48 | 0.44 | 6.0  | 0.00 | 0.00 | 1.5  | 1.5  | 0.00 | 0.35 | 0.35 | — | 1,373  | 1,373  | 0.02 | 0.05 | 2.1  | 1,391  |
| Vendor              | 0.08 | 0.03 | 1.4  | 0.51 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.07 | — | 713    | 713    | 0.04 | 0.10 | 0.68 | 746    |
| Hauling             | 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 | 0.00   |

### 3.9. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipm ent | 0.88 | 0.74 | 6.9  | 10.0 | 0.01 | 0.30  | —     | 0.30  | 0.27   | —      | 0.27   | —    | 1,511 | 1,511 | 0.06 | 0.01 | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck        | 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 | 0.00  |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.88 | 0.74 | 6.9  | 10.0 | 0.01    | 0.30 | —    | 0.30 | 0.27 | —    | 0.27 | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.18 | 0.15 | 1.4  | 2.0  | < 0.005 | 0.06 | —    | 0.06 | 0.06 | —    | 0.06 | — | 311   | 311   | 0.01    | < 0.005 | —    | 312   |
| Paving              | 0.23 | 0.23 | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.03 | 0.03 | 0.26 | 0.37 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 51    | 51    | < 0.005 | < 0.005 | —    | 52    |
| Paving              | 0.04 | 0.04 | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.06 | 0.06 | 0.04 | 0.80 | 0.00    | 0.00 | 0.15 | 0.15 | 0.00 | 0.04 | 0.04 | — | 164   | 164   | < 0.005 | 0.01    | 0.54 | 166   |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |

|                     |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05    | 0.05    | 0.05    | 0.58 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.12 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01    | 0.01    | — | 31   | 31   | < 0.005 | < 0.005 | 0.05 | 31   |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.1  | 5.1  | < 0.005 | < 0.005 | 0.01 | 5.2  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |

### 3.10. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipm ent | 0.42 | 0.37 | 2.3  | 11   | 0.01 | 0.09  | —     | 0.09  | 0.09   | —      | 0.09   | —    | 1,511 | 1,511 | 0.06 | 0.01 | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck        | 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 | 0.00  |



|                     |      |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.42 | 0.37 | 2.3  | 11   | 0.01    | 0.09    | —    | 0.09    | 0.09    | —    | 0.09    | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 1.1  | 1.1  | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.09 | 0.08 | 0.48 | 2.2  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 311   | 311   | 0.01    | < 0.005 | —    | 312   |
| Paving              | 0.23 | 0.23 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.02 | 0.01 | 0.09 | 0.40 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 51    | 51    | < 0.005 | < 0.005 | —    | 52    |
| Paving              | 0.04 | 0.04 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.06 | 0.06 | 0.04 | 0.80 | 0.00    | 0.00    | 0.15 | 0.15    | 0.00    | 0.04 | 0.04    | — | 164   | 164   | < 0.005 | 0.01    | 0.54 | 166   |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |

|                     |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05    | 0.05    | 0.05    | 0.58 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04    | 0.04    | — | 146  | 146  | < 0.005 | 0.01    | 0.01 | 148  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Average Daily       | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.12 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01    | 0.01    | — | 31   | 31   | < 0.005 | < 0.005 | 0.05 | 31   |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.1  | 5.1  | < 0.005 | < 0.005 | 0.01 | 5.2  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |

### 3.11. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location               | TOG  | ROG  | NOx  | CO  | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|------------------------|------|------|------|-----|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Onsite                 | —    | —    | —    | —   | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Daily, Summer (Max)    | —    | —    | —    | —   | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Off-Road Equipment     | 0.14 | 0.11 | 0.83 | 1.1 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 134   | 134  | 0.01 | < 0.005 | — | 134  |
| Architectural Coatings | 215  | 215  | —    | —   | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |

|                          |      |         |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|--------------------------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Onsite truck             | 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 | 0.00 |
| Daily, Winter (Max)      | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipm ent      | 0.14 | 0.11    | 0.83 | 1.1  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architect ural Coating s | 215  | 215     | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck             | 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 | 0.00 |
| Average Daily            | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipm ent      | 0.03 | 0.02    | 0.17 | 0.23 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 27   | 27   | < 0.005 | < 0.005 | —    | 28   |
| Architect ural Coating s | 44   | 44      | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck             | 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 | 0.00 |
| Annual                   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipm ent      | 0.01 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 4.5  | 4.5  | < 0.005 | < 0.005 | —    | 4.6  |
| Architect ural Coating s | 8.1  | 8.1     | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck             | 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 | 0.00 |

|                     |      |      |      |      |      |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Offsite             | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.92 | 0.90 | 0.59 | 12   | 0.00 | 0.00 | 2.4  | 2.4  | 0.00 | 0.55 | 0.55 | — | 2,555 | 2,555 | 0.04    | 0.09    | 8.4  | 2,591 |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.84 | 0.74 | 0.77 | 9.1  | 0.00 | 0.00 | 2.4  | 2.4  | 0.00 | 0.55 | 0.55 | — | 2,269 | 2,269 | 0.05    | 0.09    | 0.22 | 2,299 |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.17 | 0.15 | 0.14 | 1.9  | 0.00 | 0.00 | 0.47 | 0.47 | 0.00 | 0.11 | 0.11 | — | 478   | 478   | 0.01    | 0.02    | 0.75 | 485   |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.03 | 0.03 | 0.03 | 0.35 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 79    | 79    | < 0.005 | < 0.005 | 0.12 | 80    |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |

### 3.12. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |         |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|------------------------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Off-Road               | 0.14 | 0.11    | 0.83 | 1.1  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 215  | 215     | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Daily, Winter (Max)    | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.14 | 0.11    | 0.83 | 1.1  | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 134  | 134  | 0.01    | < 0.005 | —    | 134  |
| Architectural Coatings | 215  | 215     | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Average Daily          | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.03 | 0.02    | 0.17 | 0.23 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 27   | 27   | < 0.005 | < 0.005 | —    | 28   |
| Architectural Coatings | 44   | 44      | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 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 | 0.00 |
| Annual                 | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.01 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 4.5  | 4.5  | < 0.005 | < 0.005 | —    | 4.6  |

|                     |      |      |      |      |      |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Architect Coatings  | 8.1  | 8.1  | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.92 | 0.90 | 0.59 | 12   | 0.00 | 0.00 | 2.4  | 2.4  | 0.00 | 0.55 | 0.55 | — | 2,555 | 2,555 | 0.04    | 0.09    | 8.4  | 2,591 |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.84 | 0.74 | 0.77 | 9.1  | 0.00 | 0.00 | 2.4  | 2.4  | 0.00 | 0.55 | 0.55 | — | 2,269 | 2,269 | 0.05    | 0.09    | 0.22 | 2,299 |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.17 | 0.15 | 0.14 | 1.9  | 0.00 | 0.00 | 0.47 | 0.47 | 0.00 | 0.11 | 0.11 | — | 478   | 478   | 0.01    | 0.02    | 0.75 | 485   |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.03 | 0.03 | 0.03 | 0.35 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 79    | 79    | < 0.005 | < 0.005 | 0.12 | 80    |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

## 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date   | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 1/1/2027   | 12/30/2027 | 5.0           | 260                 | —                 |
| Site Preparation      | Site Preparation      | 1/1/2027   | 2/25/2027  | 5.0           | 40                  | —                 |
| Grading               | Grading               | 1/1/2027   | 6/3/2027   | 5.0           | 110                 | —                 |
| Building Construction | Building Construction | 1/1/2027   | 12/30/2027 | 5.0           | 260                 | —                 |
| Paving                | Paving                | 1/1/2027   | 4/15/2027  | 5.0           | 75                  | —                 |
| Architectural Coating | Architectural Coating | 1/1/2027   | 4/15/2027  | 5.0           | 75                  | —                 |

5.2. Off-Road Equipment

5.2.1. Unmitigated

| Phase Name       | Equipment Type           | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|--------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition       | Rubber Tired Dozers      | Diesel    | Average     | 2.0            | 8.0           | 367        | 0.40        |
| Demolition       | Excavators               | Diesel    | Average     | 3.0            | 8.0           | 36         | 0.38        |
| Demolition       | Concrete/Industrial Saws | Diesel    | Average     | 1.00           | 8.0           | 33         | 0.73        |
| Site Preparation | Rubber Tired Dozers      | Diesel    | Average     | 3.0            | 8.0           | 367        | 0.40        |

|                       |                            |        |         |      |     |     |      |
|-----------------------|----------------------------|--------|---------|------|-----|-----|------|
| Site Preparation      | Tractors/Loaders/Back      | Diesel | Average | 4.0  | 8.0 | 84  | 0.37 |
| Grading               | Graders                    | Diesel | Average | 1.00 | 8.0 | 148 | 0.41 |
| Grading               | Excavators                 | Diesel | Average | 2.0  | 8.0 | 36  | 0.38 |
| Grading               | Tractors/Loaders/Back hoes | Diesel | Average | 2.0  | 8.0 | 84  | 0.37 |
| Grading               | Scrapers                   | Diesel | Average | 2.0  | 8.0 | 423 | 0.48 |
| Grading               | Rubber Tired Dozers        | Diesel | Average | 1.00 | 8.0 | 367 | 0.40 |
| Building Construction | Forklifts                  | Diesel | Average | 3.0  | 8.0 | 82  | 0.20 |
| Building Construction | Generator Sets             | Diesel | Average | 1.00 | 8.0 | 14  | 0.74 |
| Building Construction | Cranes                     | Diesel | Average | 1.00 | 7.0 | 367 | 0.29 |
| Building Construction | Welders                    | Diesel | Average | 1.00 | 8.0 | 46  | 0.45 |
| Building Construction | Tractors/Loaders/Back hoes | Diesel | Average | 3.0  | 7.0 | 84  | 0.37 |
| Paving                | Pavers                     | Diesel | Average | 2.0  | 8.0 | 81  | 0.42 |
| Paving                | Paving Equipment           | Diesel | Average | 2.0  | 8.0 | 89  | 0.36 |
| Paving                | Rollers                    | Diesel | Average | 2.0  | 8.0 | 36  | 0.38 |
| Architectural Coating | Air Compressors            | Diesel | Average | 1.00 | 6.0 | 37  | 0.48 |

### 5.2.2. Mitigated

| Phase Name       | Equipment Type             | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|----------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Demolition       | Rubber Tired Dozers        | Diesel    | Tier 4 Final | 2.0            | 8.0           | 367        | 0.40        |
| Demolition       | Excavators                 | Diesel    | Average      | 3.0            | 8.0           | 36         | 0.38        |
| Demolition       | Concrete/Industrial Saws   | Diesel    | Average      | 1.00           | 8.0           | 33         | 0.73        |
| Site Preparation | Rubber Tired Dozers        | Diesel    | Tier 4 Final | 3.0            | 8.0           | 367        | 0.40        |
| Site Preparation | Tractors/Loaders/Back hoes | Diesel    | Tier 4 Final | 4.0            | 8.0           | 84         | 0.37        |
| Grading          | Graders                    | Diesel    | Tier 4 Final | 1.00           | 8.0           | 148        | 0.41        |
| Grading          | Excavators                 | Diesel    | Average      | 2.0            | 8.0           | 36         | 0.38        |

|                       |                               |        |              |      |     |     |      |
|-----------------------|-------------------------------|--------|--------------|------|-----|-----|------|
| Grading               | Tractors/Loaders/Back         | Diesel | Tier 4 Final | 2.0  | 8.0 | 84  | 0.37 |
| Grading               | Scrapers                      | Diesel | Tier 4 Final | 2.0  | 8.0 | 423 | 0.48 |
| Grading               | Rubber Tired Dozers           | Diesel | Tier 4 Final | 1.00 | 8.0 | 367 | 0.40 |
| Building Construction | Forklifts                     | Diesel | Tier 4 Final | 3.0  | 8.0 | 82  | 0.20 |
| Building Construction | Generator Sets                | Diesel | Average      | 1.00 | 8.0 | 14  | 0.74 |
| Building Construction | Cranes                        | Diesel | Tier 4 Final | 1.00 | 7.0 | 367 | 0.29 |
| Building Construction | Welders                       | Diesel | Average      | 1.00 | 8.0 | 46  | 0.45 |
| Building Construction | Tractors/Loaders/Back<br>hoes | Diesel | Tier 4 Final | 3.0  | 7.0 | 84  | 0.37 |
| Paving                | Pavers                        | Diesel | Tier 4 Final | 2.0  | 8.0 | 81  | 0.42 |
| Paving                | Paving Equipment              | Diesel | Tier 4 Final | 2.0  | 8.0 | 89  | 0.36 |
| Paving                | Rollers                       | Diesel | Average      | 2.0  | 8.0 | 36  | 0.38 |
| Architectural Coating | Air Compressors               | Diesel | Average      | 1.00 | 6.0 | 37  | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name       | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|--------------|-----------------------|----------------|---------------|
| Demolition       | Worker       | 15                    | 14             | LDA,LDT1,LDT2 |
| Demolition       | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Demolition       | Hauling      | 6.6                   | 20             | HHDT          |
| Demolition       | Onsite truck | —                     | —              | HHDT          |
| Site Preparation | Worker       | 18                    | 14             | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Site Preparation | Hauling      | 0.00                  | 20             | HHDT          |
| Site Preparation | Onsite truck | —                     | —              | HHDT          |
| Grading          | Worker       | 20                    | 14             | LDA,LDT1,LDT2 |
| Grading          | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Grading          | Hauling      | 0.00                  | 20             | HHDT          |

|                       |              |       |     |               |
|-----------------------|--------------|-------|-----|---------------|
| Grading               | Onsite truck | —     | —   | HHDT          |
| Building Construction | Worker       | 1,169 | 14  | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 218   | 8.8 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00  | 20  | HHDT          |
| Building Construction | Onsite truck | —     | —   | HHDT          |
| Paving                | Worker       | 15    | 14  | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00  | 20  | HHDT          |
| Paving                | Onsite truck | —     | —   | HHDT          |
| Architectural Coating | Worker       | 234   | 14  | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00  | 20  | HHDT          |
| Architectural Coating | Onsite truck | —     | —   | HHDT          |

### 5.3.2. Mitigated

| Phase Name       | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|--------------|-----------------------|----------------|---------------|
| Demolition       | Worker       | 15                    | 14             | LDA,LDT1,LDT2 |
| Demolition       | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Demolition       | Hauling      | 6.6                   | 20             | HHDT          |
| Demolition       | Onsite truck | —                     | —              | HHDT          |
| Site Preparation | Worker       | 18                    | 14             | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Site Preparation | Hauling      | 0.00                  | 20             | HHDT          |
| Site Preparation | Onsite truck | —                     | —              | HHDT          |
| Grading          | Worker       | 20                    | 14             | LDA,LDT1,LDT2 |
| Grading          | Vendor       | —                     | 8.8            | HHDT,MHDT     |
| Grading          | Hauling      | 0.00                  | 20             | HHDT          |
| Grading          | Onsite truck | —                     | —              | HHDT          |

|                       |              |       |     |               |
|-----------------------|--------------|-------|-----|---------------|
| Building Construction | Worker       | 1,169 | 14  | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 218   | 8.8 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00  | 20  | HHDT          |
| Building Construction | Onsite truck | —     | —   | HHDT          |
| Paving                | Worker       | 15    | 14  | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00  | 20  | HHDT          |
| Paving                | Onsite truck | —     | —   | HHDT          |
| Architectural Coating | Worker       | 234   | 14  | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —     | 8.8 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00  | 20  | HHDT          |
| Architectural Coating | Onsite truck | —     | —   | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 2,824,713                                | 941,571                                  | 577,299                                      | 192,433                                      | 82,916                      |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|------------|------------------------|------------------------|----------------------|-----------------------------------------------|---------------------|
| Demolition | 0.00                   | 0.00                   | 0.00                 | 148,935                                       | 0.00                |

|                  |      |      |      |      |      |
|------------------|------|------|------|------|------|
| Site Preparation | —    | —    | 60   | 0.00 | 0.00 |
| Grading          | —    | —    | 330  | 0.00 | 0.00 |
| Paving           | 0.00 | 0.00 | 0.00 | 0.00 | 32   |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |

### 5.7. Construction Paving

| Phase Name | Land Use                   | Area Paved (acres) | % Asphalt |
|------------|----------------------------|--------------------|-----------|
| Paving     | Apartments Low Rise        | —                  | 0%        |
| Paving     | Apartments Mid Rise        | —                  | 0%        |
| Paving     | Regional Shopping Center   | 0.00               | 0%        |
| Paving     | Government Office Building | 0.00               | 0%        |
| Paving     | Parking Lot                | 32                 | 100%      |

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2027 | 0.00         | 375 | 0.01 | < 0.005 |

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated



| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard | Result for Project Location | Unit |
|----------------|-----------------------------|------|
|----------------|-----------------------------|------|

|                              |      |                                            |
|------------------------------|------|--------------------------------------------|
| Temperature and Extreme Heat | 22   | annual days of extreme heat                |
| Extreme Precipitation        | 6.3  | annual days with precipitation above 20 mm |
| Sea Level Rise               | —    | meters of inundation depth                 |
| Wildfire                     | 0.00 | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | 1              | 1                 | 1                       | 2                   |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

#### 6.4. Climate Risk Reduction Measures

### 7. Health and Equity Details

#### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58                              |
| AQ-PM               | 37                              |
| AQ-DPM              | 27                              |
| Drinking Water      | 61                              |
| Lead Risk Housing   | 92                              |
| Pesticides          | 7.2                             |
| Toxic Releases      | 22                              |

|                                 |      |
|---------------------------------|------|
| Traffic                         | 47   |
| Effect Indicators               | —    |
| CleanUp Sites                   | 81   |
| Groundwater                     | 99   |
| Haz Waste Facilities/Generators | 62   |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 53   |
| Sensitive Population            | —    |
| Asthma                          | 93   |
| Cardio-vascular                 | 69   |
| Low Birth Weights               | 79   |
| Socioeconomic Factor Indicators | —    |
| Education                       | 63   |
| Housing                         | 73   |
| Linguistic                      | 39   |
| Poverty                         | 92   |
| Unemployment                    | 66   |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 10.16296677                     |
| Employed               | 6.274862056                     |
| Median HI              | 6.672654947                     |
| Education              | —                               |
| Bachelor's or higher   | 19.73566021                     |
| High school enrollment | 12.79353266                     |

|                                              |             |
|----------------------------------------------|-------------|
| Preschool enrollment                         | 42.65366354 |
| Transportation                               | —           |
| Auto Access                                  | 24.89413576 |
| Active commuting                             | 74.06646991 |
| Social                                       | —           |
| 2-parent households                          | 39.00936738 |
| Voting                                       | 13.02450917 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 41.6527653  |
| Park access                                  | 47.42717824 |
| Retail density                               | 38.27794174 |
| Supermarket access                           | 72.19299371 |
| Tree canopy                                  | 82.34312845 |
| Housing                                      | —           |
| Homeownership                                | 23.13614782 |
| Housing habitability                         | 24.91979982 |
| Low-inc homeowner severe housing cost burden | 13.20415758 |
| Low-inc renter severe housing cost burden    | 43.7957141  |
| Uncrowded housing                            | 25.445913   |
| Health Outcomes                              | —           |
| Insured adults                               | 37.80315668 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 5.9         |
| High Blood Pressure                          | 0.0         |
| Cancer (excluding skin)                      | 0.0         |
| Asthma                                       | 0.0         |
| Coronary Heart Disease                       | 0.0         |
| Chronic Obstructive Pulmonary Disease        | 0.0         |

|                                       |      |
|---------------------------------------|------|
| Diagnosed Diabetes                    | 0.0  |
| Life Expectancy at Birth              | 5.5  |
| Cognitively Disabled                  | 4.0  |
| Physically Disabled                   | 5.6  |
| Heart Attack ER Admissions            | 16.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 96.7 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 16.3 |
| Elderly                               | 67.6 |
| English Speaking                      | 43.4 |
| Foreign-born                          | 30.0 |
| Outdoor Workers                       | 48.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 51.3 |
| Traffic Density                       | 47.2 |
| Traffic Access                        | 66.1 |
| Other Indices                         | —    |

|                        |      |
|------------------------|------|
| Hardship               | 80.5 |
| Other Decision Support | —    |
| 2016 Voting            | 6.4  |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83                              |
| Healthy Places Index Score for Project Location (b)                                 | 13                              |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.  
 b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

### 8.1. Justifications

| Screen                            | Justification                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Land Use                          | Per Development Assumptions spreadsheet. Assume 20% of development within maximum construction year.               |
| Construction: Construction Phases | Scale schedule for 1 year construction duration. Assume demolition occurs throughout worst-case construction year. |

# North Watt Specific Plan - Infrastructure Improvements Detailed Report

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## 8. User Changes to Default Data

8.1. Justifications

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                  |
|-----------------------------|--------------------------------------------------------|
| Project Name                | North Watt Specific Plan - Infrastructure Improvements |
| Construction Start Date     | 1/1/2027                                               |
| Lead Agency                 | —                                                      |
| Land Use Scale              | Project/site                                           |
| Analysis Level for Defaults | County                                                 |
| Windspeed (m/s)             | 3.50000                                                |
| Precipitation (days)        | 39.2000                                                |
| Location                    | 38.67229397016237, -121.38517222642182                 |
| County                      | Sacramento                                             |
| City                        | Unincorporated                                         |
| Air District                | Sacramento Metropolitan AQMD                           |
| Air Basin                   | Sacramento Valley                                      |
| TAZ                         | 631                                                    |
| EDFZ                        | 13                                                     |
| Electric Utility            | Sacramento Municipal Utility District                  |
| Gas Utility                 | Pacific Gas & Electric                                 |
| App Version                 | 2022.1.1.37                                            |

## 1.2. Land Use Types

| Land Use Subtype  | Size    | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|-------------------|---------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Road Construction | 1.60000 | Mile | 15.9000     | 0.00000               | 0.00000                | —                              | —          | —           |
| Road Construction | 0.13000 | Mile | 1.60000     | 0.00000               | 0.00000                | —                              | —          | —           |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector       | #   | Measure Title             |
|--------------|-----|---------------------------|
| Construction | C-5 | Use Advanced Engine Tiers |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 7.03272 | 5.94452 | 47.2235 | 61.5847 | 0.12034 | 1.97332 | 3.17871 | 5.15203 | 1.81552 | 0.43189 | 2.24741 | —    | 13,783.4 | 13,783.4 | 0.54073 | 0.13924 | 2.56011 | 13,841.0 |
| Mit.                | 2.62431 | 2.41497 | 14.2781 | 78.8888 | 0.12034 | 0.48906 | 3.17871 | 3.66776 | 0.46750 | 0.43189 | 0.89939 | —    | 13,783.4 | 13,783.4 | 0.54073 | 0.13924 | 2.56011 | 13,841.0 |
| % Reduced           | 63%     | 59%     | 70%     | -28%    | —       | 75%     | —       | 29%     | 74%     | —       | 60%     | —    | —        | —        | —       | —       | —       | —        |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 7.00883 | 5.89636 | 47.2813 | 60.6269 | 0.12034 | 1.97337 | 3.17871 | 5.15207 | 1.81556 | 0.43189 | 2.24745 | —    | 13,700.9 | 13,700.9 | 0.54519 | 0.14073 | 0.06647 | 13,756.6 |
| Mit.                | 2.60041 | 2.36682 | 14.3359 | 77.9310 | 0.12034 | 0.48910 | 3.17871 | 3.66781 | 0.46754 | 0.43189 | 0.89943 | —    | 13,700.9 | 13,700.9 | 0.54519 | 0.14073 | 0.06647 | 13,756.6 |
| % Reduced           | 63%     | 60%     | 70%     | -29%    | —       | 75%     | —       | 29%     | 74%     | —       | 60%     | —    | —        | —        | —       | —       | —       | —        |
| Average Daily (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 3.75400 | 3.15744 | 25.6100 | 32.8611 | 0.06561 | 1.04074 | 1.66224 | 2.70299 | 0.95750 | 0.22948 | 1.18698 | —    | 7,421.92 | 7,421.92 | 0.29239 | 0.07459 | 0.63562 | 7,452.09 |
| Mit.                | 1.43944 | 1.30731 | 7.74195 | 42.2007 | 0.06561 | 0.26975 | 1.66224 | 1.93199 | 0.25768 | 0.22948 | 0.48716 | —    | 7,421.92 | 7,421.92 | 0.29239 | 0.07459 | 0.63562 | 7,452.09 |
| % Reduced           | 62%     | 59%     | 70%     | -28%    | —       | 74%     | —       | 29%     | 73%     | —       | 59%     | —    | —        | —        | —       | —       | —       | —        |

|              |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Annual (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Unmit.       | 0.68510 | 0.57623 | 4.67382 | 5.99715 | 0.01197 | 0.18994 | 0.30336 | 0.49330 | 0.17474 | 0.04188 | 0.21662 | — | 1,228.78 | 1,228.78 | 0.04841 | 0.01235 | 0.10523 | 1,233.78 |
| Mit.         | 0.26270 | 0.23858 | 1.41291 | 7.70162 | 0.01197 | 0.04923 | 0.30336 | 0.35259 | 0.04703 | 0.04188 | 0.08891 | — | 1,228.78 | 1,228.78 | 0.04841 | 0.01235 | 0.10523 | 1,233.78 |
| % Reduced    | 62%     | 59%     | 70%     | -28%    | —       | 74%     | —       | 29%     | 73%     | —       | 59%     | — | —        | —        | —       | —       | —       | —        |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Daily - Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2027                 | 7.03272 | 5.94452 | 47.2235 | 61.5847 | 0.12034 | 1.97332 | 3.17871 | 5.15203 | 1.81552 | 0.43189 | 2.24741 | —    | 13,783.4 | 13,783.4 | 0.54073 | 0.13924 | 2.56011 | 13,841.0 |
| Daily - Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2027                 | 7.00883 | 5.89636 | 47.2813 | 60.6269 | 0.12034 | 1.97337 | 3.17871 | 5.15207 | 1.81556 | 0.43189 | 2.24745 | —    | 13,700.9 | 13,700.9 | 0.54519 | 0.14073 | 0.06647 | 13,756.6 |
| 2028                 | 1.98949 | 1.67816 | 13.9746 | 23.0744 | 0.02991 | 0.48796 | 0.42940 | 0.91736 | 0.44892 | 0.10065 | 0.54957 | —    | 3,689.18 | 3,689.18 | 0.14140 | 0.04363 | 0.03602 | 3,705.75 |
| Average Daily        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2027                 | 3.75400 | 3.15744 | 25.6100 | 32.8611 | 0.06561 | 1.04074 | 1.66224 | 2.70299 | 0.95750 | 0.22948 | 1.18698 | —    | 7,421.92 | 7,421.92 | 0.29239 | 0.07459 | 0.63562 | 7,452.09 |
| 2028                 | 0.00389 | 0.00328 | 0.02732 | 0.04522 | 0.00006 | 0.00095 | 0.00082 | 0.00177 | 0.00088 | 0.00019 | 0.00107 | —    | 7.24021  | 7.24021  | 0.00027 | 0.00008 | 0.00117 | 7.27315  |
| Annual               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2027                 | 0.68510 | 0.57623 | 4.67382 | 5.99715 | 0.01197 | 0.18994 | 0.30336 | 0.49330 | 0.17474 | 0.04188 | 0.21662 | —    | 1,228.78 | 1,228.78 | 0.04841 | 0.01235 | 0.10523 | 1,233.78 |
| 2028                 | 0.00071 | 0.00060 | 0.00499 | 0.00825 | 0.00001 | 0.00017 | 0.00015 | 0.00032 | 0.00016 | 0.00003 | 0.00020 | —    | 1.19870  | 1.19870  | 0.00005 | 0.00001 | 0.00019 | 1.20415  |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                      |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Daily - Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| 2027                 | 2.62431 | 2.41497 | 14.2781 | 78.8888 | 0.12034 | 0.48906 | 3.17871 | 3.66776 | 0.46750 | 0.43189 | 0.89939 | — | 13,783.4 | 13,783.4 | 0.54073 | 0.13924 | 2.56011 | 13,841.0 |
| Daily - Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| 2027                 | 2.60041 | 2.36682 | 14.3359 | 77.9310 | 0.12034 | 0.48910 | 3.17871 | 3.66781 | 0.46754 | 0.43189 | 0.89943 | — | 13,700.9 | 13,700.9 | 0.54519 | 0.14073 | 0.06647 | 13,756.6 |
| 2028                 | 1.23620 | 1.08131 | 6.38050 | 24.2054 | 0.02991 | 0.23641 | 0.42940 | 0.66580 | 0.22111 | 0.10065 | 0.32176 | — | 3,689.18 | 3,689.18 | 0.14140 | 0.04363 | 0.03602 | 3,705.75 |
| Average Daily        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| 2027                 | 1.43944 | 1.30731 | 7.74195 | 42.2007 | 0.06561 | 0.26975 | 1.66224 | 1.93199 | 0.25768 | 0.22948 | 0.48716 | — | 7,421.92 | 7,421.92 | 0.29239 | 0.07459 | 0.63562 | 7,452.09 |
| 2028                 | 0.00242 | 0.00212 | 0.01245 | 0.04743 | 0.00006 | 0.00046 | 0.00082 | 0.00128 | 0.00043 | 0.00019 | 0.00062 | — | 7.24021  | 7.24021  | 0.00027 | 0.00008 | 0.00117 | 7.27315  |
| Annual               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| 2027                 | 0.26270 | 0.23858 | 1.41291 | 7.70162 | 0.01197 | 0.04923 | 0.30336 | 0.35259 | 0.04703 | 0.04188 | 0.08891 | — | 1,228.78 | 1,228.78 | 0.04841 | 0.01235 | 0.10523 | 1,233.78 |
| 2028                 | 0.00044 | 0.00039 | 0.00227 | 0.00866 | 0.00001 | 0.00008 | 0.00015 | 0.00023 | 0.00008 | 0.00003 | 0.00011 | — | 1.19870  | 1.19870  | 0.00005 | 0.00001 | 0.00019 | 1.20415  |

### 3. Construction Emissions Details

#### 3.1. Linear, Grubbing & Land Clearing (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Off-Road Equipm ent         | 0.80178 | 0.67372 | 5.99249 | 6.90423 | 0.00906 | 0.32656 | —       | 0.32656 | 0.30044 | —       | 0.30044 | — | 981.525 | 981.525 | 0.03981 | 0.00796 | —       | 984.894 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.41360 | 0.41360 | —       | 0.04466 | 0.04466 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipm ent         | 0.05711 | 0.04799 | 0.42686 | 0.49181 | 0.00065 | 0.02326 | —       | 0.02326 | 0.02140 | —       | 0.02140 | — | 69.9169 | 69.9169 | 0.00284 | 0.00057 | —       | 70.1568 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.02946 | 0.02946 | —       | 0.00318 | 0.00318 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipm ent         | 0.01042 | 0.00876 | 0.07790 | 0.08975 | 0.00012 | 0.00425 | —       | 0.00425 | 0.00391 | —       | 0.00391 | — | 11.5755 | 11.5755 | 0.00047 | 0.00009 | —       | 11.6153 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.00538 | 0.00538 | —       | 0.00058 | 0.00058 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |



|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.06273 | 0.05529 | 0.05764 | 0.68007 | 0.00000 | 0.00000 | 0.17681 | 0.17681 | 0.00000 | 0.04144 | 0.04144 | — | 169.907 | 169.907 | 0.00386 | 0.00706 | 0.01641 | 172.123 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00444 | 0.00394 | 0.00360 | 0.04962 | 0.00000 | 0.00000 | 0.01228 | 0.01228 | 0.00000 | 0.00287 | 0.00287 | — | 12.4193 | 12.4193 | 0.00022 | 0.00048 | 0.01944 | 12.5859 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00081 | 0.00072 | 0.00066 | 0.00906 | 0.00000 | 0.00000 | 0.00224 | 0.00224 | 0.00000 | 0.00052 | 0.00052 | — | 2.05616 | 2.05616 | 0.00004 | 0.00008 | 0.00322 | 2.08375 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.2. Linear, Grubbing & Land Clearing (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|---------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|------|---------|---------|---------|---------|---|---------|
| Onsite              | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —       | —       | —       | —       | — | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —       | —       | —       | —       | — | —       |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —       | —       | —       | —       | — | —       |
| Off-Road Equipment  | 0.28311 | 0.24843 | 1.96783 | 6.91713 | 0.00906 | 0.05604 | —     | 0.05604 | 0.05261 | —      | 0.05261 | —    | 981.525 | 981.525 | 0.03981 | 0.00796 | — | 984.894 |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.41360 | 0.41360 | —       | 0.04466 | 0.04466 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment          | 0.02017 | 0.01770 | 0.14017 | 0.49273 | 0.00065 | 0.00399 | —       | 0.00399 | 0.00375 | —       | 0.00375 | — | 69.9169 | 69.9169 | 0.00284 | 0.00057 | —       | 70.1568 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.02946 | 0.02946 | —       | 0.00318 | 0.00318 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment          | 0.00368 | 0.00323 | 0.02558 | 0.08992 | 0.00012 | 0.00073 | —       | 0.00073 | 0.00068 | —       | 0.00068 | — | 11.5755 | 11.5755 | 0.00047 | 0.00009 | —       | 11.6153 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.00538 | 0.00538 | —       | 0.00058 | 0.00058 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.06273 | 0.05529 | 0.05764 | 0.68007 | 0.00000 | 0.00000 | 0.17681 | 0.17681 | 0.00000 | 0.04144 | 0.04144 | — | 169.907 | 169.907 | 0.00386 | 0.00706 | 0.01641 | 172.123 |

|               |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Vendor        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling       | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker        | 0.00444 | 0.00394 | 0.00360 | 0.04962 | 0.00000 | 0.00000 | 0.01228 | 0.01228 | 0.00000 | 0.00287 | 0.00287 | — | 12.4193 | 12.4193 | 0.00022 | 0.00048 | 0.01944 | 12.5859 |
| Vendor        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling       | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker        | 0.00081 | 0.00072 | 0.00066 | 0.00906 | 0.00000 | 0.00000 | 0.00224 | 0.00224 | 0.00000 | 0.00052 | 0.00052 | — | 2.05616 | 2.05616 | 0.00004 | 0.00008 | 0.00322 | 2.08375 |
| Vendor        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling       | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.3. Linear, Grading & Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                    | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Onsite                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 6.76105 | 5.68116 | 46.9606 | 57.9670 | 0.11996 | 1.97255 | —       | 1.97255 | 1.81474 | —       | 1.81474 | —    | 12,989.7 | 12,989.7 | 0.52692 | 0.10538 | —       | 13,034.3 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.48157 | 2.48157 | —       | 0.26795 | 0.26795 | —    | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Off-Road Equipment          | 6.76105 | 5.68116 | 46.9606 | 57.9670 | 0.11996 | 1.97255 | —       | 1.97255 | 1.81474 | —       | 1.81474 | — | 12,989.7 | 12,989.7 | 0.52692 | 0.10538 | —       | 13,034.3 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.48157 | 2.48157 | —       | 0.26795 | 0.26795 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 2.16724 | 1.82108 | 15.0531 | 18.5812 | 0.03845 | 0.63230 | —       | 0.63230 | 0.58171 | —       | 0.58171 | — | 4,163.82 | 4,163.82 | 0.16890 | 0.03378 | —       | 4,178.11 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.79546 | 0.79546 | —       | 0.08589 | 0.08589 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 0.39552 | 0.33235 | 2.74719 | 3.39107 | 0.00702 | 0.11539 | —       | 0.11539 | 0.10616 | —       | 0.10616 | — | 689.367  | 689.367  | 0.02796 | 0.00559 | —       | 691.733  |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.14517 | 0.14517 | —       | 0.01568 | 0.01568 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker                      | 0.26578 | 0.26131 | 0.17084 | 3.58161 | 0.00000 | 0.00000 | 0.68199 | 0.68199 | 0.00000 | 0.15986 | 0.15986 | — | 737.803  | 737.803  | 0.01042 | 0.02574 | 2.43749 | 748.173  |
| Vendor                      | 0.00590 | 0.00205 | 0.09209 | 0.03616 | 0.00039 | 0.00078 | 0.01515 | 0.01593 | 0.00078 | 0.00408 | 0.00485 | — | 55.3911  | 55.3911  | 0.00338 | 0.00811 | 0.12262 | 58.0158  |

|                           |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Hauling                   | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily,<br>Winter<br>(Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                    | 0.24197 | 0.21325 | 0.22233 | 2.62311 | 0.00000 | 0.00000 | 0.68199 | 0.68199 | 0.00000 | 0.15986 | 0.15986 | — | 655.354 | 655.354 | 0.01488 | 0.02723 | 0.06330 | 663.905 |
| Vendor                    | 0.00581 | 0.00196 | 0.09835 | 0.03688 | 0.00039 | 0.00082 | 0.01515 | 0.01597 | 0.00082 | 0.00408 | 0.00490 | — | 55.3794 | 55.3794 | 0.00338 | 0.00811 | 0.00318 | 57.8847 |
| Hauling                   | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average<br>Daily          | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                    | 0.07709 | 0.06836 | 0.06254 | 0.86134 | 0.00000 | 0.00000 | 0.21311 | 0.21311 | 0.00000 | 0.04987 | 0.04987 | — | 215.564 | 215.564 | 0.00382 | 0.00825 | 0.33750 | 218.456 |
| Vendor                    | 0.00186 | 0.00064 | 0.03096 | 0.01162 | 0.00012 | 0.00025 | 0.00476 | 0.00501 | 0.00025 | 0.00128 | 0.00153 | — | 17.7539 | 17.7539 | 0.00108 | 0.00260 | 0.01695 | 18.5729 |
| Hauling                   | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                    | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                    | 0.01407 | 0.01247 | 0.01141 | 0.15720 | 0.00000 | 0.00000 | 0.03889 | 0.03889 | 0.00000 | 0.00910 | 0.00910 | — | 35.6891 | 35.6891 | 0.00063 | 0.00137 | 0.05588 | 36.1679 |
| Vendor                    | 0.00034 | 0.00012 | 0.00565 | 0.00212 | 0.00002 | 0.00005 | 0.00087 | 0.00091 | 0.00005 | 0.00023 | 0.00028 | — | 2.93936 | 2.93936 | 0.00018 | 0.00043 | 0.00281 | 3.07496 |
| Hauling                   | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.4. Linear, Grading & Excavation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                          | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R | CO2e     |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---|----------|
| Onsite                            | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | — | —        |
| Daily,<br>Summer<br>(Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | — | —        |
| Off-Road<br>Equipment             | 2.35264 | 2.15162 | 14.0152 | 75.2710 | 0.11996 | 0.48828 | —       | 0.48828 | 0.46672 | —       | 0.46672 | —    | 12,989.7 | 12,989.7 | 0.52692 | 0.10538 | — | 13,034.3 |
| Dust From<br>Material<br>Movement | —       | —       | —       | —       | —       | —       | 2.48157 | 2.48157 | —       | 0.26795 | 0.26795 | —    | —        | —        | —       | —       | — | —        |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent         | 2.35264 | 2.15162 | 14.0152 | 75.2710 | 0.11996 | 0.48828 | —       | 0.48828 | 0.46672 | —       | 0.46672 | — | 12,989.7 | 12,989.7 | 0.52692 | 0.10538 | —       | 13,034.3 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.48157 | 2.48157 | —       | 0.26795 | 0.26795 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent         | 0.75413 | 0.68970 | 4.49254 | 24.1280 | 0.03845 | 0.15652 | —       | 0.15652 | 0.14961 | —       | 0.14961 | — | 4,163.82 | 4,163.82 | 0.16890 | 0.03378 | —       | 4,178.11 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.79546 | 0.79546 | —       | 0.08589 | 0.08589 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent         | 0.13763 | 0.12587 | 0.81989 | 4.40335 | 0.00702 | 0.02856 | —       | 0.02856 | 0.02730 | —       | 0.02730 | — | 689.367  | 689.367  | 0.02796 | 0.00559 | —       | 691.733  |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.14517 | 0.14517 | —       | 0.01568 | 0.01568 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.26578 | 0.26131 | 0.17084 | 3.58161 | 0.00000 | 0.00000 | 0.68199 | 0.68199 | 0.00000 | 0.15986 | 0.15986 | — | 737.803 | 737.803 | 0.01042 | 0.02574 | 2.43749 | 748.173 |
| Vendor              | 0.00590 | 0.00205 | 0.09209 | 0.03616 | 0.00039 | 0.00078 | 0.01515 | 0.01593 | 0.00078 | 0.00408 | 0.00485 | — | 55.3911 | 55.3911 | 0.00338 | 0.00811 | 0.12262 | 58.0158 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.24197 | 0.21325 | 0.22233 | 2.62311 | 0.00000 | 0.00000 | 0.68199 | 0.68199 | 0.00000 | 0.15986 | 0.15986 | — | 655.354 | 655.354 | 0.01488 | 0.02723 | 0.06330 | 663.905 |
| Vendor              | 0.00581 | 0.00196 | 0.09835 | 0.03688 | 0.00039 | 0.00082 | 0.01515 | 0.01597 | 0.00082 | 0.00408 | 0.00490 | — | 55.3794 | 55.3794 | 0.00338 | 0.00811 | 0.00318 | 57.8847 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.07709 | 0.06836 | 0.06254 | 0.86134 | 0.00000 | 0.00000 | 0.21311 | 0.21311 | 0.00000 | 0.04987 | 0.04987 | — | 215.564 | 215.564 | 0.00382 | 0.00825 | 0.33750 | 218.456 |
| Vendor              | 0.00186 | 0.00064 | 0.03096 | 0.01162 | 0.00012 | 0.00025 | 0.00476 | 0.00501 | 0.00025 | 0.00128 | 0.00153 | — | 17.7539 | 17.7539 | 0.00108 | 0.00260 | 0.01695 | 18.5729 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.01407 | 0.01247 | 0.01141 | 0.15720 | 0.00000 | 0.00000 | 0.03889 | 0.03889 | 0.00000 | 0.00910 | 0.00910 | — | 35.6891 | 35.6891 | 0.00063 | 0.00137 | 0.05588 | 36.1679 |
| Vendor              | 0.00034 | 0.00012 | 0.00565 | 0.00212 | 0.00002 | 0.00005 | 0.00087 | 0.00091 | 0.00005 | 0.00023 | 0.00028 | — | 2.93936 | 2.93936 | 0.00018 | 0.00043 | 0.00281 | 3.07496 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.5. Linear, Drainage, Utilities, & Sub-Grade (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Off-Road                    | 5.52515 | 4.63049 | 39.6212 | 46.4162 | 0.10870 | 1.52520 | —       | 1.52520 | 1.40318 | —       | 1.40318 | — | 11,383.5 | 11,383.5 | 0.46177 | 0.09235 | —       | 11,422.6 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.06798 | 2.06798 | —       | 0.22329 | 0.22329 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 5.52515 | 4.63049 | 39.6212 | 46.4162 | 0.10870 | 1.52520 | —       | 1.52520 | 1.40318 | —       | 1.40318 | — | 11,383.5 | 11,383.5 | 0.46177 | 0.09235 | —       | 11,422.6 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.06798 | 2.06798 | —       | 0.22329 | 0.22329 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 1.18072 | 0.98953 | 8.46699 | 9.91909 | 0.02323 | 0.32593 | —       | 0.32593 | 0.29986 | —       | 0.29986 | — | 2,432.64 | 2,432.64 | 0.09868 | 0.01974 | —       | 2,440.99 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.44192 | 0.44192 | —       | 0.04772 | 0.04772 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 0.21548 | 0.18059 | 1.54522 | 1.81023 | 0.00424 | 0.05948 | —       | 0.05948 | 0.05472 | —       | 0.05472 | — | 402.752  | 402.752  | 0.01634 | 0.00327 | —       | 404.134  |



|                             |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.08065 | 0.08065 | —       | 0.00871 | 0.00871 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.22640 | 0.22260 | 0.14553 | 3.05100 | 0.00000 | 0.00000 | 0.58095 | 0.58095 | 0.00000 | 0.13617 | 0.13617 | — | 628.499 | 628.499 | 0.00887 | 0.02193 | 2.07638 | 637.333 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.20612 | 0.18166 | 0.18939 | 2.23450 | 0.00000 | 0.00000 | 0.58095 | 0.58095 | 0.00000 | 0.13617 | 0.13617 | — | 558.265 | 558.265 | 0.01268 | 0.02320 | 0.05392 | 565.548 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.04378 | 0.03882 | 0.03551 | 0.48916 | 0.00000 | 0.00000 | 0.12102 | 0.12102 | 0.00000 | 0.02832 | 0.02832 | — | 122.419 | 122.419 | 0.00217 | 0.00469 | 0.19167 | 124.061 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.00799 | 0.00708 | 0.00648 | 0.08927 | 0.00000 | 0.00000 | 0.02209 | 0.02209 | 0.00000 | 0.00517 | 0.00517 | — | 20.2679 | 20.2679 | 0.00036 | 0.00078 | 0.03173 | 20.5398 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.6. Linear, Drainage, Utilities, & Sub-Grade (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

# North Watt Specific Plan - Infrastructure Improvements Detailed Report, 1/16/2026

| Location                    | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Onsite                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 1.88037 | 1.72768 | 10.7264 | 63.6082 | 0.10870 | 0.38311 | —       | 0.38311 | 0.36847 | —       | 0.36847 | —    | 11,383.5 | 11,383.5 | 0.46177 | 0.09235 | —       | 11,422.6 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.06798 | 2.06798 | —       | 0.22329 | 0.22329 | —    | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 1.88037 | 1.72768 | 10.7264 | 63.6082 | 0.10870 | 0.38311 | —       | 0.38311 | 0.36847 | —       | 0.36847 | —    | 11,383.5 | 11,383.5 | 0.46177 | 0.09235 | —       | 11,422.6 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 2.06798 | 2.06798 | —       | 0.22329 | 0.22329 | —    | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 0.40183 | 0.36920 | 2.29221 | 13.5930 | 0.02323 | 0.08187 | —       | 0.08187 | 0.07874 | —       | 0.07874 | —    | 2,432.64 | 2,432.64 | 0.09868 | 0.01974 | —       | 2,440.99 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.44192 | 0.44192 | —       | 0.04772 | 0.04772 | —    | —        | —        | —       | —       | —       | —        |

## North Watt Specific Plan - Infrastructure Improvements Detailed Report, 1/16/2026

|                             |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment          | 0.07333 | 0.06738 | 0.41833 | 2.48072 | 0.00424 | 0.01494 | —       | 0.01494 | 0.01437 | —       | 0.01437 | — | 402.752 | 402.752 | 0.01634 | 0.00327 | —       | 404.134 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.08065 | 0.08065 | —       | 0.00871 | 0.00871 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.22640 | 0.22260 | 0.14553 | 3.05100 | 0.00000 | 0.00000 | 0.58095 | 0.58095 | 0.00000 | 0.13617 | 0.13617 | — | 628.499 | 628.499 | 0.00887 | 0.02193 | 2.07638 | 637.333 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.20612 | 0.18166 | 0.18939 | 2.23450 | 0.00000 | 0.00000 | 0.58095 | 0.58095 | 0.00000 | 0.13617 | 0.13617 | — | 558.265 | 558.265 | 0.01268 | 0.02320 | 0.05392 | 565.548 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.04378 | 0.03882 | 0.03551 | 0.48916 | 0.00000 | 0.00000 | 0.12102 | 0.12102 | 0.00000 | 0.02832 | 0.02832 | — | 122.419 | 122.419 | 0.00217 | 0.00469 | 0.19167 | 124.061 |
| Vendor                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling                     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.00799 | 0.00708 | 0.00648 | 0.08927 | 0.00000 | 0.00000 | 0.02209 | 0.02209 | 0.00000 | 0.00517 | 0.00517 | — | 20.2679 | 20.2679 | 0.00036 | 0.00078 | 0.03173 | 20.5398 |

|         |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Vendor  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.7. Linear, Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Onsite              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 1.94708 | 1.63609 | 14.3592 | 21.5612 | 0.02991 | 0.55834 | —       | 0.55834 | 0.51367 | —       | 0.51367 | —    | 3,238.99 | 3,238.99 | 0.13139 | 0.02628 | —       | 3,250.11 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.20576 | 0.17289 | 1.51741 | 2.27848 | 0.00316 | 0.05900 | —       | 0.05900 | 0.05428 | —       | 0.05428 | —    | 342.281  | 342.281  | 0.01388 | 0.00278 | —       | 343.456  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.03755 | 0.03155 | 0.27693 | 0.41582 | 0.00058 | 0.01077 | —       | 0.01077 | 0.00991 | —       | 0.00991 | —    | 56.6685  | 56.6685  | 0.00230 | 0.00046 | —       | 56.8630  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.15235 | 0.13427 | 0.13998 | 1.65159 | 0.00000 | 0.00000 | 0.42940 | 0.42940 | 0.00000 | 0.10065 | 0.10065 | — | 412.630 | 412.630 | 0.00937 | 0.01715 | 0.03985 | 418.014 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.01600 | 0.01419 | 0.01298 | 0.17879 | 0.00000 | 0.00000 | 0.04423 | 0.04423 | 0.00000 | 0.01035 | 0.01035 | — | 44.7447 | 44.7447 | 0.00079 | 0.00171 | 0.07006 | 45.3450 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00292 | 0.00259 | 0.00237 | 0.03263 | 0.00000 | 0.00000 | 0.00807 | 0.00807 | 0.00000 | 0.00189 | 0.00189 | — | 7.40799 | 7.40799 | 0.00013 | 0.00028 | 0.01160 | 7.50738 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.8. Linear, Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Off-Road Equipm     | 1.13690 | 0.99143 | 6.35366 | 22.6776 | 0.02991 | 0.25662 | —       | 0.25662 | 0.23971 | —       | 0.23971 | — | 3,238.99 | 3,238.99 | 0.13139 | 0.02628 | —       | 3,250.11 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.12014 | 0.10477 | 0.67142 | 2.39646 | 0.00316 | 0.02712 | —       | 0.02712 | 0.02533 | —       | 0.02533 | — | 342.281  | 342.281  | 0.01388 | 0.00278 | —       | 343.456  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.02193 | 0.01912 | 0.12253 | 0.43735 | 0.00058 | 0.00495 | —       | 0.00495 | 0.00462 | —       | 0.00462 | — | 56.6685  | 56.6685  | 0.00230 | 0.00046 | —       | 56.8630  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker              | 0.15235 | 0.13427 | 0.13998 | 1.65159 | 0.00000 | 0.00000 | 0.42940 | 0.42940 | 0.00000 | 0.10065 | 0.10065 | — | 412.630  | 412.630  | 0.00937 | 0.01715 | 0.03985 | 418.014  |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker              | 0.01600 | 0.01419 | 0.01298 | 0.17879 | 0.00000 | 0.00000 | 0.04423 | 0.04423 | 0.00000 | 0.01035 | 0.01035 | — | 44.7447  | 44.7447  | 0.00079 | 0.00171 | 0.07006 | 45.3450  |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |

|         |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker  | 0.00292 | 0.00259 | 0.00237 | 0.03263 | 0.00000 | 0.00000 | 0.00807 | 0.00807 | 0.00000 | 0.00189 | 0.00189 | — | 7.40799 | 7.40799 | 0.00013 | 0.00028 | 0.01160 | 7.50738 |
| Vendor  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.9. Linear, Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R       | CO2e     |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------|----------|---------|---------|---------|----------|
| Onsite              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 1.84182 | 1.54764 | 13.8499 | 21.5160 | 0.02991 | 0.48796 | —       | 0.48796 | 0.44892 | —       | 0.44892 | —    | 3,238.79 | 3,238.79 | 0.13138 | 0.02628 | —       | 3,249.91 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.00360 | 0.00303 | 0.02710 | 0.04211 | 0.00006 | 0.00095 | —       | 0.00095 | 0.00088 | —       | 0.00088 | —    | 6.33815  | 6.33815  | 0.00026 | 0.00005 | —       | 6.35990  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.00066 | 0.00055 | 0.00495 | 0.00768 | 0.00001 | 0.00017 | —       | 0.00017 | 0.00016 | —       | 0.00016 | —    | 1.04935  | 1.04935  | 0.00004 | 0.00001 | —       | 1.05295  |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |            |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|------------|---------|---------|---------|
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.14767 | 0.13052 | 0.12471 | 1.55836 | 0.00000 | 0.00000 | 0.42940 | 0.42940 | 0.00000 | 0.10065 | 0.10065 | — | 404.176 | 404.176 | 0.00843    | 0.01715 | 0.03602 | 409.533 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.00029 | 0.00026 | 0.00021 | 0.00311 | 0.00000 | 0.00000 | 0.00082 | 0.00082 | 0.00000 | 0.00019 | 0.00019 | — | 0.81163 | 0.81163 | 0.00001    | 0.00003 | 0.00117 | 0.82263 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.00005 | 0.00005 | 0.00004 | 0.00057 | 0.00000 | 0.00000 | 0.00015 | 0.00015 | 0.00000 | 0.00003 | 0.00003 | — | 0.13438 | 0.13438 | < 0.000005 | 0.00001 | 0.00019 | 0.13620 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |

### 3.10. Linear, Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|                     |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent | 1.08853 | 0.95079 | 6.25579 | 22.6471 | 0.02991 | 0.23641 | —       | 0.23641 | 0.22111 | —       | 0.22111 | — | 3,238.79 | 3,238.79 | 0.13138 | 0.02628 | —       | 3,249.91 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent | 0.00213 | 0.00186 | 0.01224 | 0.04432 | 0.00006 | 0.00046 | —       | 0.00046 | 0.00043 | —       | 0.00043 | — | 6.33815  | 6.33815  | 0.00026 | 0.00005 | —       | 6.35990  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipm ent | 0.00039 | 0.00034 | 0.00223 | 0.00809 | 0.00001 | 0.00008 | —       | 0.00008 | 0.00008 | —       | 0.00008 | — | 1.04935  | 1.04935  | 0.00004 | 0.00001 | —       | 1.05295  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker              | 0.14767 | 0.13052 | 0.12471 | 1.55836 | 0.00000 | 0.00000 | 0.42940 | 0.42940 | 0.00000 | 0.10065 | 0.10065 | — | 404.176  | 404.176  | 0.00843 | 0.01715 | 0.03602 | 409.533  |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |

|         |         |         |         |         |         |         |         |         |         |         |         |   |         |         |            |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|------------|---------|---------|---------|
| Worker  | 0.00029 | 0.00026 | 0.00021 | 0.00311 | 0.00000 | 0.00000 | 0.00082 | 0.00082 | 0.00000 | 0.00019 | 0.00019 | — | 0.81163 | 0.81163 | 0.00001    | 0.00003 | 0.00117 | 0.82263 |
| Vendor  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker  | 0.00005 | 0.00005 | 0.00004 | 0.00057 | 0.00000 | 0.00000 | 0.00015 | 0.00015 | 0.00000 | 0.00003 | 0.00003 | — | 0.13438 | 0.13438 | < 0.000005 | 0.00001 | 0.00019 | 0.13620 |
| Vendor  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|------------|------------|------------|----------|---------------|---------------------|-------------------|
|------------|------------|------------|----------|---------------|---------------------|-------------------|

|                                          |                                          |           |           |         |         |   |
|------------------------------------------|------------------------------------------|-----------|-----------|---------|---------|---|
| Linear, Grubbing & Land Clearing         | Linear, Grubbing & Land Clearing         | 1/1/2027  | 2/6/2027  | 5.00000 | 26.0000 | — |
| Linear, Grading & Excavation             | Linear, Grading & Excavation             | 2/7/2027  | 7/20/2027 | 5.00000 | 117.000 | — |
| Linear, Drainage, Utilities, & Sub-Grade | Linear, Drainage, Utilities, & Sub-Grade | 7/21/2027 | 11/7/2027 | 5.00000 | 78.0000 | — |
| Linear, Paving                           | Linear, Paving                           | 11/8/2027 | 1/1/2028  | 5.00000 | 39.0000 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name                       | Equipment Type       | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------------------------|----------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Grubbing & Land Clearing | Crawler Tractors     | Diesel    | Average     | 2.00000        | 8.00000       | 87.0000    | 0.43000     |
| Linear, Grubbing & Land Clearing | Excavators           | Diesel    | Average     | 2.00000        | 8.00000       | 36.0000    | 0.38000     |
| Linear, Grubbing & Land Clearing | Signal Boards        | Electric  | Average     | 3.00000        | 8.00000       | 6.00000    | 0.82000     |
| Linear, Grading & Excavation     | Crawler Tractors     | Diesel    | Average     | 2.00000        | 8.00000       | 87.0000    | 0.43000     |
| Linear, Grading & Excavation     | Excavators           | Diesel    | Average     | 6.00000        | 8.00000       | 36.0000    | 0.38000     |
| Linear, Grading & Excavation     | Graders              | Diesel    | Average     | 2.00000        | 8.00000       | 148.000    | 0.41000     |
| Linear, Grading & Excavation     | Rollers              | Diesel    | Average     | 4.00000        | 8.00000       | 36.0000    | 0.38000     |
| Linear, Grading & Excavation     | Rubber Tired Loaders | Diesel    | Average     | 2.00000        | 8.00000       | 150.000    | 0.36000     |
| Linear, Grading & Excavation     | Scrapers             | Diesel    | Average     | 4.00000        | 8.00000       | 423.000    | 0.48000     |
| Linear, Grading & Excavation     | Signal Boards        | Electric  | Average     | 3.00000        | 8.00000       | 6.00000    | 0.82000     |

|                                          |                            |          |         |         |         |         |         |
|------------------------------------------|----------------------------|----------|---------|---------|---------|---------|---------|
| Linear, Grading & Excavation             | Tractors/Loaders/Back hoes | Diesel   | Average | 4.00000 | 8.00000 | 84.0000 | 0.37000 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors            | Diesel   | Average | 2.00000 | 8.00000 | 37.0000 | 0.48000 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets             | Diesel   | Average | 2.00000 | 8.00000 | 14.0000 | 0.74000 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders                    | Diesel   | Average | 2.00000 | 8.00000 | 148.000 | 0.41000 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors           | Diesel   | Average | 2.00000 | 8.00000 | 8.00000 | 0.43000 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps                      | Diesel   | Average | 2.00000 | 8.00000 | 11.0000 | 0.74000 |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts    | Diesel   | Average | 2.00000 | 8.00000 | 96.0000 | 0.40000 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers                   | Diesel   | Average | 4.00000 | 8.00000 | 423.000 | 0.48000 |
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards              | Electric | Average | 3.00000 | 8.00000 | 6.00000 | 0.82000 |
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Back hoes | Diesel   | Average | 4.00000 | 8.00000 | 84.0000 | 0.37000 |
| Linear, Paving                           | Pavers                     | Diesel   | Average | 2.00000 | 8.00000 | 81.0000 | 0.42000 |
| Linear, Paving                           | Paving Equipment           | Diesel   | Average | 2.00000 | 8.00000 | 89.0000 | 0.36000 |
| Linear, Paving                           | Rollers                    | Diesel   | Average | 6.00000 | 8.00000 | 36.0000 | 0.38000 |
| Linear, Paving                           | Signal Boards              | Electric | Average | 3.00000 | 8.00000 | 6.00000 | 0.82000 |
| Linear, Paving                           | Tractors/Loaders/Back hoes | Diesel   | Average | 4.00000 | 8.00000 | 84.0000 | 0.37000 |

### 5.2.2. Mitigated

| Phase Name                       | Equipment Type   | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------------------------|------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Linear, Grubbing & Land Clearing | Crawler Tractors | Diesel    | Tier 4 Final | 2.00000        | 8.00000       | 87.0000    | 0.43000     |
| Linear, Grubbing & Land Clearing | Excavators       | Diesel    | Average      | 2.00000        | 8.00000       | 36.0000    | 0.38000     |



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|                                          |                            |          |              |         |         |         |         |
|------------------------------------------|----------------------------|----------|--------------|---------|---------|---------|---------|
| Linear, Grubbing & Land Clearing         | Signal Boards              | Electric | Average      | 3.00000 | 8.00000 | 6.00000 | 0.82000 |
| Linear, Grading & Excavation             | Crawler Tractors           | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 87.0000 | 0.43000 |
| Linear, Grading & Excavation             | Excavators                 | Diesel   | Average      | 6.00000 | 8.00000 | 36.0000 | 0.38000 |
| Linear, Grading & Excavation             | Graders                    | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 148.000 | 0.41000 |
| Linear, Grading & Excavation             | Rollers                    | Diesel   | Average      | 4.00000 | 8.00000 | 36.0000 | 0.38000 |
| Linear, Grading & Excavation             | Rubber Tired Loaders       | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 150.000 | 0.36000 |
| Linear, Grading & Excavation             | Scrapers                   | Diesel   | Tier 4 Final | 4.00000 | 8.00000 | 423.000 | 0.48000 |
| Linear, Grading & Excavation             | Signal Boards              | Electric | Average      | 3.00000 | 8.00000 | 6.00000 | 0.82000 |
| Linear, Grading & Excavation             | Tractors/Loaders/Back hoes | Diesel   | Tier 4 Final | 4.00000 | 8.00000 | 84.0000 | 0.37000 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors            | Diesel   | Average      | 2.00000 | 8.00000 | 37.0000 | 0.48000 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets             | Diesel   | Average      | 2.00000 | 8.00000 | 14.0000 | 0.74000 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders                    | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 148.000 | 0.41000 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors           | Diesel   | Average      | 2.00000 | 8.00000 | 8.00000 | 0.43000 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps                      | Diesel   | Average      | 2.00000 | 8.00000 | 11.0000 | 0.74000 |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts    | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 96.0000 | 0.40000 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers                   | Diesel   | Tier 4 Final | 4.00000 | 8.00000 | 423.000 | 0.48000 |
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards              | Electric | Average      | 3.00000 | 8.00000 | 6.00000 | 0.82000 |

|                                          |                            |          |              |         |         |         |         |
|------------------------------------------|----------------------------|----------|--------------|---------|---------|---------|---------|
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Back hoes | Diesel   | Tier 4 Final | 4.00000 | 8.00000 | 84.0000 | 0.37000 |
| Linear, Paving                           | Pavers                     | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 81.0000 | 0.42000 |
| Linear, Paving                           | Paving Equipment           | Diesel   | Tier 4 Final | 2.00000 | 8.00000 | 89.0000 | 0.36000 |
| Linear, Paving                           | Rollers                    | Diesel   | Average      | 6.00000 | 8.00000 | 36.0000 | 0.38000 |
| Linear, Paving                           | Signal Boards              | Electric | Average      | 3.00000 | 8.00000 | 6.00000 | 0.82000 |
| Linear, Paving                           | Tractors/Loaders/Back hoes | Diesel   | Tier 4 Final | 4.00000 | 8.00000 | 84.0000 | 0.37000 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name                               | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------------------------------|--------------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing         | Worker       | 17.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing         | Vendor       | 0.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Grubbing & Land Clearing         | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Grubbing & Land Clearing         | Onsite truck | —                     | —              | HHDT          |
| Linear, Grading & Excavation             | Worker       | 67.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation             | Vendor       | 2.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Grading & Excavation             | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Grading & Excavation             | Onsite truck | —                     | —              | HHDT          |
| Linear, Drainage, Utilities, & Sub-Grade | Worker       | 57.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor       | 0.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | —                     | —              | HHDT          |
| Linear, Paving                           | Worker       | 42.5000               | 14.3000        | LDA,LDT1,LDT2 |

|                |              |         |         |           |
|----------------|--------------|---------|---------|-----------|
| Linear, Paving | Vendor       | 0.00000 | 8.80000 | HHDT,MHDT |
| Linear, Paving | Hauling      | 0.00000 | 20.0000 | HHDT      |
| Linear, Paving | Onsite truck | —       | —       | HHDT      |

### 5.3.2. Mitigated

| Phase Name                               | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------------------------------|--------------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing         | Worker       | 17.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing         | Vendor       | 0.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Grubbing & Land Clearing         | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Grubbing & Land Clearing         | Onsite truck | —                     | —              | HHDT          |
| Linear, Grading & Excavation             | Worker       | 67.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation             | Vendor       | 2.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Grading & Excavation             | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Grading & Excavation             | Onsite truck | —                     | —              | HHDT          |
| Linear, Drainage, Utilities, & Sub-Grade | Worker       | 57.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor       | 0.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | —                     | —              | HHDT          |
| Linear, Paving                           | Worker       | 42.5000               | 14.3000        | LDA,LDT1,LDT2 |
| Linear, Paving                           | Vendor       | 0.00000               | 8.80000        | HHDT,MHDT     |
| Linear, Paving                           | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Linear, Paving                           | Onsite truck | —                     | —              | HHDT          |

### 5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name                               | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------------------------------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Linear, Grubbing & Land Clearing         | —                      | —                      | 17.5000              | 0.00000                       | 0.00000             |
| Linear, Grading & Excavation             | —                      | —                      | 17.5000              | 0.00000                       | 0.00000             |
| Linear, Drainage, Utilities, & Sub-Grade | —                      | —                      | 17.5000              | 0.00000                       | 0.00000             |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2     | CH4     | N2O     |
|------|--------------|---------|---------|---------|
| 2027 | 352.209      | 374.840 | 0.01290 | 0.00170 |
| 2028 | 88.0523      | 374.840 | 0.01290 | 0.00170 |

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 21.7600                     | annual days of extreme heat                |
| Extreme Precipitation        | 6.35000                     | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00000                     | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | 1              | 1                 | 1                       | 2                   |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58.2327                         |
| AQ-PM               | 37.4362                         |

|                                 |         |
|---------------------------------|---------|
| AQ-DPM                          | 27.4549 |
| Drinking Water                  | 61.0716 |
| Lead Risk Housing               | 92.2495 |
| Pesticides                      | 7.24138 |
| Toxic Releases                  | 21.8055 |
| Traffic                         | 47.0125 |
| Effect Indicators               | —       |
| CleanUp Sites                   | 80.9444 |
| Groundwater                     | 99.2197 |
| Haz Waste Facilities/Generators | 61.5751 |
| Impaired Water Bodies           | 0.00000 |
| Solid Waste                     | 52.8981 |
| Sensitive Population            | —       |
| Asthma                          | 93.3699 |
| Cardio-vascular                 | 69.1550 |
| Low Birth Weights               | 79.4072 |
| Socioeconomic Factor Indicators | —       |
| Education                       | 62.8575 |
| Housing                         | 73.4094 |
| Linguistic                      | 39.2069 |
| Poverty                         | 91.6080 |
| Unemployment                    | 65.6299 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator     | Result for Project Census Tract |
|---------------|---------------------------------|
| Economic      | —                               |
| Above Poverty | 10.16296677                     |



|                                              |             |
|----------------------------------------------|-------------|
| Employed                                     | 6.274862056 |
| Median HI                                    | 6.672654947 |
| Education                                    | —           |
| Bachelor's or higher                         | 19.73566021 |
| High school enrollment                       | 12.79353266 |
| Preschool enrollment                         | 42.65366354 |
| Transportation                               | —           |
| Auto Access                                  | 24.89413576 |
| Active commuting                             | 74.06646991 |
| Social                                       | —           |
| 2-parent households                          | 39.00936738 |
| Voting                                       | 13.02450917 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 41.6527653  |
| Park access                                  | 47.42717824 |
| Retail density                               | 38.27794174 |
| Supermarket access                           | 72.19299371 |
| Tree canopy                                  | 82.34312845 |
| Housing                                      | —           |
| Homeownership                                | 23.13614782 |
| Housing habitability                         | 24.91979982 |
| Low-inc homeowner severe housing cost burden | 13.20415758 |
| Low-inc renter severe housing cost burden    | 43.7957141  |
| Uncrowded housing                            | 25.445913   |
| Health Outcomes                              | —           |
| Insured adults                               | 37.80315668 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 5.9         |

|                                       |      |
|---------------------------------------|------|
| High Blood Pressure                   | 0.0  |
| Cancer (excluding skin)               | 0.0  |
| Asthma                                | 0.0  |
| Coronary Heart Disease                | 0.0  |
| Chronic Obstructive Pulmonary Disease | 0.0  |
| Diagnosed Diabetes                    | 0.0  |
| Life Expectancy at Birth              | 5.5  |
| Cognitively Disabled                  | 4.0  |
| Physically Disabled                   | 5.6  |
| Heart Attack ER Admissions            | 16.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 96.7 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 16.3 |
| Elderly                               | 67.6 |
| English Speaking                      | 43.4 |
| Foreign-born                          | 30.0 |
| Outdoor Workers                       | 48.6 |

|                                  |      |
|----------------------------------|------|
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 51.3 |
| Traffic Density                  | 47.2 |
| Traffic Access                   | 66.1 |
| Other Indices                    | —    |
| Hardship                         | 80.5 |
| Other Decision Support           | —    |
| 2016 Voting                      | 6.4  |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83.0000                         |
| Healthy Places Index Score for Project Location (b)                                 | 13.0000                         |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.  
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

| Screen               | Justification                       |
|----------------------|-------------------------------------|
| Construction: Paving | 10 feet of trail width to be paved. |

# North Watt SP - Operations Baseline 2025 Detailed Report

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## 7.5. Evaluation Scorecard

## 7.6. Health & Equity Custom Measures

# 8. User Changes to Default Data

## 8.1. Justifications

## 8.3. Land Use

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                    |
|-----------------------------|------------------------------------------|
| Project Name                | North Watt SP - Operations Baseline 2025 |
| Operational Year            | 2025                                     |
| Lead Agency                 | —                                        |
| Land Use Scale              | Project/site                             |
| Analysis Level for Defaults | County                                   |
| Windspeed (m/s)             | 3.50000                                  |
| Precipitation (days)        | 39.2000                                  |
| Location                    | 38.6729879394575, -121.38420471265154    |
| County                      | Sacramento                               |
| City                        | Unincorporated                           |
| Air District                | Sacramento Metropolitan AQMD             |
| Air Basin                   | Sacramento Valley                        |
| TAZ                         | 631                                      |
| EDFZ                        | 13                                       |
| Electric Utility            | Sacramento Municipal Utility District    |
| Gas Utility                 | Pacific Gas & Electric                   |
| App Version                 | 2022.1.1.43                              |

## 1.2. Land Use Types

| Land Use Subtype          | Size    | Unit     | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---------------------------|---------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Bank (with Drive-Through) | 26.4700 | 1000sqft | 2.01200     | 26,469.0              | 0.00000                | —                              | —          | —           |

|                                      |          |                   |         |           |          |         |          |   |
|--------------------------------------|----------|-------------------|---------|-----------|----------|---------|----------|---|
| General Office Building              | 635.730  | 1000sqft          | 47.6662 | 635,734   | 0.00000  | —       | —        | — |
| Government Office Building           | 194.500  | 1000sqft          | 8.73600 | 194,498   | 0.00000  | —       | —        | — |
| Medical Office Building              | 11.4300  | 1000sqft          | 1.00600 | 11,430.0  | 0.00000  | —       | —        | — |
| Library                              | 37.5000  | 1000sqft          | 6.55100 | 37,500.0  | 0.00000  | —       | —        | — |
| Place of Worship                     | 172.470  | 1000sqft          | 23.8850 | 172,468   | 0.00000  | —       | —        | — |
| General Heavy Industry               | 65.2300  | 1000sqft          | 11.2660 | 65,528.0  | 0.00000  | —       | —        | — |
| Unrefrigerated Warehouse-No Rail     | 2,088.19 | 1000sqft          | 129.931 | 2,088,194 | 0.00000  | —       | —        | — |
| Parking Lot                          | 281.610  | 1000sqft          | 6.46488 | 0.00000   | 0.00000  | —       | —        | — |
| City Park                            | 19.5820  | Acre              | 19.5820 | 0.00000   | 0.00000  | 0.00000 | —        | — |
| Fast Food Restaurant with Drive Thru | 41.0100  | 1000sqft          | 10.7410 | 41,006.0  | 0.00000  | —       | —        | — |
| Health Club                          | 60.3800  | 1000sqft          | 5.36800 | 60,379.0  | 0.00000  | —       | —        | — |
| Motel                                | 63.0000  | Room              | 1.06900 | 16,030.0  | 0.00000  | —       | —        | — |
| Quality Restaurant                   | 42.8100  | 1000sqft          | 7.04500 | 42,812.0  | 0.00000  | —       | —        | — |
| User Defined Recreational            | 1.000000 | User Defined Unit | 0.87300 | 136.000   | 0.00000  | —       | —        | — |
| Apartments Low Rise                  | 742.000  | Dwelling Unit     | 32.4140 | 588,481   | 0.00000  | —       | 2,078.00 | — |
| Condo/Townhouse                      | 4.00000  | Dwelling Unit     | 0.39700 | 2,811.00  | 0.00000  | —       | 11.0000  | — |
| Single Family Housing                | 7.00000  | Dwelling Unit     | 2.73900 | 7,325.00  | 81,990.0 | —       | 20.0000  | — |
| Supermarket                          | 65.3300  | 1000sqft          | 5.66600 | 65,328.0  | 0.00000  | —       | —        | — |
| Automobile Care Center               | 266.230  | 1000sqft          | 27.6610 | 266,227   | 0.00000  | —       | —        | — |
| Convenience Market (24 hour)         | 2.16000  | 1000sqft          | 0.50700 | 2,160.00  | 0.00000  | —       | —        | — |

|                                   |         |          |         |          |         |   |   |   |
|-----------------------------------|---------|----------|---------|----------|---------|---|---|---|
| Free-Standing Discount store      | 13.3000 | 1000sqft | 1.50500 | 13,299.0 | 0.00000 | — | — | — |
| Free-Standing Discount Superstore | 121.220 | 1000sqft | 7.64800 | 121,222  | 0.00000 | — | — | — |
| Home Improvement Superstore       | 209.140 | 1000sqft | 15.5080 | 209,143  | 0.00000 | — | — | — |
| Regional Shopping Center          | 115.290 | 1000sqft | 8.13600 | 115,287  | 0.00000 | — | — | — |
| Strip Mall                        | 628.170 | 1000sqft | 62.8630 | 628,165  | 0.00000 | — | — | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG      | ROG      | NOx     | CO       | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2     | CO2T      | CH4     | N2O     | R        | CO2e      |
|---------------------|----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|---------|---------|----------|-----------|
| Daily, Summer (Max) | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 1,073.85 | 1,014.47 | 613.188 | 5,751.40 | 10.8093 | 10.6211 | 860.413 | 871.034 | 10.0052 | 218.587 | 228.593 | 7,431.80 | 1,185,206 | 1,192,638 | 635.351 | 54.2467 | 18,199.6 | 1,242,887 |
| Daily, Winter (Max) | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 933.891  | 872.733  | 712.019 | 4,991.36 | 9.88315 | 10.2496 | 860.413 | 870.663 | 9.72897 | 218.587 | 228.316 | 7,431.80 | 1,091,998 | 1,099,430 | 646.108 | 59.3836 | 14,283.4 | 1,147,562 |
| Average Daily (Max) | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 963.564  | 903.330  | 667.951 | 4,946.92 | 10.0795 | 10.5064 | 838.845 | 849.352 | 9.92038 | 213.195 | 223.116 | 7,431.80 | 1,111,539 | 1,118,971 | 640.216 | 56.7331 | 15,915.2 | 1,167,798 |

|              |         |         |         |         |         |         |         |         |         |         |         |          |         |         |         |         |          |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|---------|
| Annual (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |
| Unmit.       | 175.850 | 164.858 | 121.901 | 902.813 | 1.83952 | 1.91741 | 153.089 | 155.007 | 1.81047 | 38.9082 | 40.7186 | 1,230.42 | 184,028 | 185,258 | 105.995 | 9.39281 | 2,634.94 | 193,342 |

## 2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector              | TOG      | ROG      | NOx     | CO       | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2     | CO2T      | CH4     | N2O     | R        | CO2e      |
|---------------------|----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|---------|---------|----------|-----------|
| Daily, Summer (Max) | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile              | 903.321  | 848.380  | 586.637 | 5,480.03 | 10.6478 | 8.36347 | 860.413 | 868.777 | 7.84374 | 218.587 | 226.431 | —        | 1,087,541 | 1,087,541 | 58.7180 | 50.0044 | 4,020.42 | 1,107,931 |
| Area                | 167.829  | 164.745  | 2.18023 | 251.927  | 0.01434 | 0.39349 | —       | 0.39349 | 0.29732 | —       | 0.29732 | 0.00000  | 975.012   | 975.012   | 0.04089 | 0.00833 | —        | 978.518   |
| Energy              | 2.69809  | 1.34904  | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 94,384.2  | 94,384.2  | 4.83105 | 0.35044 | —        | 94,609.4  |
| Water               | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 2,306.13  | 4,078.99  | 6.17074 | 3.88348 | —        | 5,390.54  |
| Waste               | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000   | 5,658.94  | 565.590 | 0.00000 | —        | 19,798.7  |
| Refrig.             | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | 14,179.2 | 14,179.2  |
| Total               | 1,073.85 | 1,014.47 | 613.188 | 5,751.40 | 10.8093 | 10.6211 | 860.413 | 871.034 | 10.0052 | 218.587 | 228.593 | 7,431.80 | 1,185,206 | 1,192,638 | 635.351 | 54.2467 | 18,199.6 | 1,242,887 |
| Daily, Winter (Max) | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile              | 804.630  | 744.822  | 687.648 | 4,971.91 | 9.73598 | 8.38551 | 860.413 | 868.799 | 7.86483 | 218.587 | 226.452 | —        | 995,308   | 995,308   | 69.5162 | 55.1497 | 104.243  | 1,013,584 |
| Area                | 126.563  | 126.563  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | —       | 0.00000 | 0.00000 | —       | 0.00000 | 0.00000  | 0.00000   | 0.00000   | 0.00000 | 0.00000 | —        | 0.00000   |
| Energy              | 2.69809  | 1.34904  | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 94,384.2  | 94,384.2  | 4.83105 | 0.35044 | —        | 94,609.4  |
| Water               | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 2,306.13  | 4,078.99  | 6.17074 | 3.88348 | —        | 5,390.54  |
| Waste               | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000   | 5,658.94  | 565.590 | 0.00000 | —        | 19,798.7  |
| Refrig.             | —        | —        | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | 14,179.2 | 14,179.2  |
| Total               | 933.891  | 872.733  | 712.019 | 4,991.36 | 9.88315 | 10.2496 | 860.413 | 870.663 | 9.72897 | 218.587 | 228.316 | 7,431.80 | 1,091,998 | 1,099,430 | 646.108 | 59.3836 | 14,283.4 | 1,147,562 |

|               |         |         |         |          |         |         |         |         |         |         |         |          |           |           |         |         |          |           |
|---------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|---------|---------|----------|-----------|
| Average Daily | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile        | 806.038 | 749.265 | 642.087 | 4,754.92 | 9.92255 | 8.37273 | 838.845 | 847.218 | 7.85260 | 213.195 | 221.048 | —        | 1,014,181 | 1,014,181 | 63.5960 | 52.4935 | 1,735.98 | 1,033,150 |
| Area          | 154.827 | 152.715 | 1.49331 | 172.552  | 0.00982 | 0.26951 | —       | 0.26951 | 0.20364 | —       | 0.20364 | 0.00000  | 667.817   | 667.817   | 0.02800 | 0.00571 | —        | 670.218   |
| Energy        | 2.69809 | 1.34904 | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 94,384.2  | 94,384.2  | 4.83105 | 0.35044 | —        | 94,609.4  |
| Water         | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 2,306.13  | 4,078.99  | 6.17074 | 3.88348 | —        | 5,390.54  |
| Waste         | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000   | 5,658.94  | 565.590 | 0.00000 | —        | 19,798.7  |
| Refrig.       | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | 14,179.2 | 14,179.2  |
| Total         | 963.564 | 903.330 | 667.951 | 4,946.92 | 10.0795 | 10.5064 | 838.845 | 849.352 | 9.92038 | 213.195 | 223.116 | 7,431.80 | 1,111,539 | 1,118,971 | 640.216 | 56.7331 | 15,915.2 | 1,167,798 |
| Annual        | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile        | 147.102 | 136.741 | 117.181 | 867.773  | 1.81086 | 1.52802 | 153.089 | 154.617 | 1.43310 | 38.9082 | 40.3413 | —        | 167,909   | 167,909   | 10.5291 | 8.69089 | 287.412  | 171,050   |
| Area          | 28.2560 | 27.8705 | 0.27253 | 31.4908  | 0.00179 | 0.04919 | —       | 0.04919 | 0.03716 | —       | 0.03716 | 0.00000  | 110.565   | 110.565   | 0.00464 | 0.00094 | —        | 110.962   |
| Energy        | 0.49240 | 0.24620 | 4.44756 | 3.54888  | 0.02686 | 0.34020 | —       | 0.34020 | 0.34020 | —       | 0.34020 | —        | 15,626.4  | 15,626.4  | 0.79984 | 0.05802 | —        | 15,663.7  |
| Water         | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 293.518  | 381.806   | 675.324   | 1.02164 | 0.64295 | —        | 892.465   |
| Waste         | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 936.902  | 0.00000   | 936.902   | 93.6399 | 0.00000 | —        | 3,277.90  |
| Refrig.       | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —         | —         | —       | —       | 2,347.52 | 2,347.52  |
| Total         | 175.850 | 164.858 | 121.901 | 902.813  | 1.83952 | 1.91741 | 153.089 | 155.007 | 1.81047 | 38.9082 | 40.7186 | 1,230.42 | 184,028   | 185,258   | 105.995 | 9.39281 | 2,634.94 | 193,342   |

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R | CO2e     |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|----------|----------|---------|---------|---|----------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 244.397  | 244.397  | 0.00841 | 0.00111 | — | 244.938  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 15,032.0 | 15,032.0 | 0.51732 | 0.06817 | — | 15,065.3 |
| Government Office Building       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 4,598.93 | 4,598.93 | 0.15827 | 0.02086 | — | 4,609.10 |
| Medical Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 270.264  | 270.264  | 0.00930 | 0.00123 | — | 270.862  |
| Library                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 346.250  | 346.250  | 0.01192 | 0.00157 | — | 347.016  |
| Place of Worship                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1,592.46 | 1,592.46 | 0.05480 | 0.00722 | — | 1,595.98 |
| General Heavy Industry           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 605.042  | 605.042  | 0.02082 | 0.00274 | — | 606.381  |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 18,095.7 | 18,095.7 | 0.62276 | 0.08207 | — | 18,135.7 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 253.341  | 253.341  | 0.00872 | 0.00115 | — | 253.901  |
| City Park                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 1,644.94 | 1,644.94 | 0.05661 | 0.00746 | — | 1,648.57 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 557.500  | 557.500  | 0.01919 | 0.00253 | — | 558.733  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 102.237  | 102.237  | 0.00352 | 0.00046 | — | 102.464  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 1,717.38 | 1,717.38 | 0.05910 | 0.00779 | — | 1,721.18 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | 3,770.66 | 3,770.66 | 0.12977 | 0.01710 | — | 3,779.00 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 25.5824  | 25.5824  | 0.00088 | 0.00012 | — | 25.6390  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 64.0386  | 64.0386  | 0.00220 | 0.00029 | — | 64.1803  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | 3,182.81 | 3,182.81 | 0.10954 | 0.01443 | — | 3,189.85 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | — | 2,458.16 | 2,458.16 | 0.08460 | 0.01115 | — | 2,463.60 |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | — | 105.236  | 105.236  | 0.00362 | 0.00048 | — | 105.469  |
| Free-Standing Discount store         | — | — | — | — | — | — | — | — | — | — | — | — | 127.852  | 127.852  | 0.00440 | 0.00058 | — | 128.135  |



|                             |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Free-Standing               | — | — | — | — | — | — | — | — | — | — | — | — | 1,165.39 | 1,165.39 | 0.04011 | 0.00529 | — | 1,167.97 |
| Home Improvement Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 2,010.64 | 2,010.64 | 0.06920 | 0.00912 | — | 2,015.08 |
| Regional Shopping Center    | — | — | — | — | — | — | — | — | — | — | — | — | 1,108.33 | 1,108.33 | 0.03814 | 0.00503 | — | 1,110.78 |
| Strip Mall                  | — | — | — | — | — | — | — | — | — | — | — | — | 6,038.98 | 6,038.98 | 0.20783 | 0.02739 | — | 6,052.34 |
| Total                       | — | — | — | — | — | — | — | — | — | — | — | — | 65,118.1 | 65,118.1 | 2.24102 | 0.29533 | — | 65,262.1 |
| Daily, Winter (Max)         | — | — | — | — | — | — | — | — | — | — | — | — | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)   | — | — | — | — | — | — | — | — | — | — | — | — | 244.397  | 244.397  | 0.00841 | 0.00111 | — | 244.938  |
| General Office Building     | — | — | — | — | — | — | — | — | — | — | — | — | 15,032.0 | 15,032.0 | 0.51732 | 0.06817 | — | 15,065.3 |
| Government Office Building  | — | — | — | — | — | — | — | — | — | — | — | — | 4,598.93 | 4,598.93 | 0.15827 | 0.02086 | — | 4,609.10 |
| Medical Office Building     | — | — | — | — | — | — | — | — | — | — | — | — | 270.264  | 270.264  | 0.00930 | 0.00123 | — | 270.862  |
| Library                     | — | — | — | — | — | — | — | — | — | — | — | — | 346.250  | 346.250  | 0.01192 | 0.00157 | — | 347.016  |
| Place of Worship            | — | — | — | — | — | — | — | — | — | — | — | — | 1,592.46 | 1,592.46 | 0.05480 | 0.00722 | — | 1,595.98 |
| General Heavy Industry      | — | — | — | — | — | — | — | — | — | — | — | — | 605.042  | 605.042  | 0.02082 | 0.00274 | — | 606.381  |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Unrefrig<br>erated<br>Wareho<br>Rail                | — | — | — | — | — | — | — | — | — | — | — | — | 18,095.7 | 18,095.7 | 0.62276 | 0.08207 | — | 18,135.7 |
| Parking<br>Lot                                      | — | — | — | — | — | — | — | — | — | — | — | — | 253.341  | 253.341  | 0.00872 | 0.00115 | — | 253.901  |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | 1,644.94 | 1,644.94 | 0.05661 | 0.00746 | — | 1,648.57 |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | — | 557.500  | 557.500  | 0.01919 | 0.00253 | — | 558.733  |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | — | 102.237  | 102.237  | 0.00352 | 0.00046 | — | 102.464  |
| Quality<br>Restaurant                               | — | — | — | — | — | — | — | — | — | — | — | — | 1,717.38 | 1,717.38 | 0.05910 | 0.00779 | — | 1,721.18 |
| User<br>Defined<br>Recreational                     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartme<br>nts<br>Low Rise                          | — | — | — | — | — | — | — | — | — | — | — | — | 3,770.66 | 3,770.66 | 0.12977 | 0.01710 | — | 3,779.00 |
| Condo/T<br>ownhou<br>se                             | — | — | — | — | — | — | — | — | — | — | — | — | 25.5824  | 25.5824  | 0.00088 | 0.00012 | — | 25.6390  |
| Single<br>Family<br>Housing                         | — | — | — | — | — | — | — | — | — | — | — | — | 64.0386  | 64.0386  | 0.00220 | 0.00029 | — | 64.1803  |
| Superm<br>arket                                     | — | — | — | — | — | — | — | — | — | — | — | — | 3,182.81 | 3,182.81 | 0.10954 | 0.01443 | — | 3,189.85 |
| Automo<br>bile<br>Care<br>Center                    | — | — | — | — | — | — | — | — | — | — | — | — | 2,458.16 | 2,458.16 | 0.08460 | 0.01115 | — | 2,463.60 |

|                                             |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Conveni<br>Market<br>(24 hour)              | — | — | — | — | — | — | — | — | — | — | — | — | 105.236  | 105.236  | 0.00362 | 0.00048 | — | 105.469  |
| Free-Sta<br>nding<br>Discount<br>store      | — | — | — | — | — | — | — | — | — | — | — | — | 127.852  | 127.852  | 0.00440 | 0.00058 | — | 128.135  |
| Free-Sta<br>nding<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 1,165.39 | 1,165.39 | 0.04011 | 0.00529 | — | 1,167.97 |
| Home<br>Improvement<br>Superstore           | — | — | — | — | — | — | — | — | — | — | — | — | 2,010.64 | 2,010.64 | 0.06920 | 0.00912 | — | 2,015.08 |
| Regiona<br>l<br>Shoppin<br>g<br>Center      | — | — | — | — | — | — | — | — | — | — | — | — | 1,108.33 | 1,108.33 | 0.03814 | 0.00503 | — | 1,110.78 |
| Strip<br>Mall                               | — | — | — | — | — | — | — | — | — | — | — | — | 6,038.98 | 6,038.98 | 0.20783 | 0.02739 | — | 6,052.34 |
| Total                                       | — | — | — | — | — | — | — | — | — | — | — | — | 65,118.1 | 65,118.1 | 2.24102 | 0.29533 | — | 65,262.1 |
| Annual                                      | — | — | — | — | — | — | — | — | — | — | — | — | —        | —        | —       | —       | — | —        |
| Bank<br>(with<br>Drive-Through)             | — | — | — | — | — | — | — | — | — | — | — | — | 40.4628  | 40.4628  | 0.00139 | 0.00018 | — | 40.5523  |
| General<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | — | 2,488.72 | 2,488.72 | 0.08565 | 0.01129 | — | 2,494.22 |
| Govern<br>ment<br>Office<br>Building        | — | — | — | — | — | — | — | — | — | — | — | — | 761.405  | 761.405  | 0.02620 | 0.00345 | — | 763.089  |
| Medical<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | — | 44.7452  | 44.7452  | 0.00154 | 0.00020 | — | 44.8442  |
| Library                                     | — | — | — | — | — | — | — | — | — | — | — | — | 57.3257  | 57.3257  | 0.00197 | 0.00026 | — | 57.4525  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | — | 263.649  | 263.649  | 0.00907 | 0.00120 | — | 264.232  |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | 100.172  | 100.172  | 0.00345 | 0.00045 | — | 100.393  |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | — | 2,995.95 | 2,995.95 | 0.10310 | 0.01359 | — | 3,002.57 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 41.9435  | 41.9435  | 0.00144 | 0.00019 | — | 42.0362  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 272.338  | 272.338  | 0.00937 | 0.00124 | — | 272.940  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 92.3005  | 92.3005  | 0.00318 | 0.00042 | — | 92.5046  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 16.9266  | 16.9266  | 0.00058 | 0.00008 | — | 16.9640  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 284.332  | 284.332  | 0.00979 | 0.00129 | — | 284.961  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | 624.275  | 624.275  | 0.02148 | 0.00283 | — | 625.656  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 4.23546  | 4.23546  | 0.00015 | 0.00002 | — | 4.24483  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 10.6023  | 10.6023  | 0.00036 | 0.00005 | — | 10.6258  |

|                                         |   |   |   |   |   |   |   |   |   |   |   |   |          |          |         |         |   |          |
|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|---------|---------|---|----------|
| Superm                                  | — | — | — | — | — | — | — | — | — | — | — | — | 526.951  | 526.951  | 0.01813 | 0.00239 | — | 528.117  |
| Automobile<br>Care<br>Center            | — | — | — | — | — | — | — | — | — | — | — | — | 406.977  | 406.977  | 0.01401 | 0.00185 | — | 407.877  |
| Convenience<br>Market<br>(24 hour)      | — | — | — | — | — | — | — | — | — | — | — | — | 17.4231  | 17.4231  | 0.00060 | 0.00008 | — | 17.4616  |
| Free-Standing<br>Discount<br>store      | — | — | — | — | — | — | — | — | — | — | — | — | 21.1674  | 21.1674  | 0.00073 | 0.00010 | — | 21.2142  |
| Free-Standing<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 192.944  | 192.944  | 0.00664 | 0.00088 | — | 193.370  |
| Home<br>Improvement<br>Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | 332.884  | 332.884  | 0.01146 | 0.00151 | — | 333.620  |
| Regional<br>Shopping<br>Center          | — | — | — | — | — | — | — | — | — | — | — | — | 183.497  | 183.497  | 0.00631 | 0.00083 | — | 183.903  |
| Strip<br>Mall                           | — | — | — | — | — | — | — | — | — | — | — | — | 999.822  | 999.822  | 0.03441 | 0.00453 | — | 1,002.03 |
| Total                                   | — | — | — | — | — | — | — | — | — | — | — | — | 10,781.0 | 10,781.0 | 0.37103 | 0.04889 | — | 10,804.9 |

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                                                     |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Bank<br>(with<br>Drive-Through)                     | 0.03093 | 0.01546 | 0.28115 | 0.23617 | 0.00169 | 0.02137 | — | 0.02137 | 0.02137 | — | 0.02137 | — | 335.465  | 335.465  | 0.02969 | 0.00063 | — | 336.395  |
| General<br>Office<br>Building                       | 0.62492 | 0.31246 | 5.68107 | 4.77210 | 0.03409 | 0.43176 | — | 0.43176 | 0.43176 | — | 0.43176 | — | 6,778.46 | 6,778.46 | 0.59989 | 0.01276 | — | 6,797.26 |
| Govern<br>ment<br>Office<br>Building                | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Medical<br>Office<br>Building                       | 0.01124 | 0.00562 | 0.10214 | 0.08580 | 0.00061 | 0.00776 | — | 0.00776 | 0.00776 | — | 0.00776 | — | 121.871  | 121.871  | 0.01079 | 0.00023 | — | 122.209  |
| Library                                             | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of<br>Worship                                 | 0.20152 | 0.10076 | 1.83196 | 1.53885 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.84 | 2,185.84 | 0.19345 | 0.00412 | — | 2,191.90 |
| General<br>Heavy<br>Industry                        | 0.07656 | 0.03828 | 0.69604 | 0.58467 | 0.00418 | 0.05290 | — | 0.05290 | 0.05290 | — | 0.05290 | — | 830.493  | 830.493  | 0.07350 | 0.00156 | — | 832.797  |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail      | 0.20366 | 0.10183 | 1.85145 | 1.55522 | 0.01111 | 0.14071 | — | 0.14071 | 0.14071 | — | 0.14071 | — | 2,209.09 | 2,209.09 | 0.19550 | 0.00416 | — | 2,215.22 |
| Parking<br>Lot                                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City<br>Park                                        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | 0.14580 | 0.07290 | 1.32550 | 1.11342 | 0.00795 | 0.10074 | — | 0.10074 | 0.10074 | — | 0.10074 | — | 1,581.54 | 1,581.54 | 0.13997 | 0.00298 | — | 1,585.93 |
| Health<br>Club                                      | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |
| Motel                                               | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Quality Restaurant                | 0.15223 | 0.07611 | 1.38388 | 1.16246 | 0.00830 | 0.10517 | — | 0.10517 | 0.10517 | — | 0.10517 | — | 1,651.19 | 1,651.19 | 0.14613 | 0.00311 | — | 1,655.77 |
| User Defined Recreational         | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise               | 0.27922 | 0.13961 | 2.38602 | 1.01533 | 0.01523 | 0.19291 | — | 0.19291 | 0.19291 | — | 0.19291 | — | 3,028.64 | 3,028.64 | 0.26803 | 0.00570 | — | 3,037.04 |
| Condo/Townhouse                   | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing             | 0.00813 | 0.00407 | 0.06951 | 0.02958 | 0.00044 | 0.00562 | — | 0.00562 | 0.00562 | — | 0.00562 | — | 88.2354  | 88.2354  | 0.00781 | 0.00017 | — | 88.4801  |
| Supermarket                       | 0.03883 | 0.01942 | 0.35302 | 0.29654 | 0.00212 | 0.02683 | — | 0.02683 | 0.02683 | — | 0.02683 | — | 421.212  | 421.212  | 0.03728 | 0.00079 | — | 422.380  |
| Automobile Care Center            | 0.31107 | 0.15553 | 2.82787 | 2.37541 | 0.01697 | 0.21492 | — | 0.21492 | 0.21492 | — | 0.21492 | — | 3,374.13 | 3,374.13 | 0.29861 | 0.00635 | — | 3,383.48 |
| Convenience Market (24 hour)      | 0.00128 | 0.00064 | 0.01167 | 0.00980 | 0.00007 | 0.00089 | — | 0.00089 | 0.00089 | — | 0.00089 | — | 13.9269  | 13.9269  | 0.00123 | 0.00003 | — | 13.9655  |
| Free-Standing Discount store      | 0.00346 | 0.00173 | 0.03145 | 0.02642 | 0.00019 | 0.00239 | — | 0.00239 | 0.00239 | — | 0.00239 | — | 37.5275  | 37.5275  | 0.00332 | 0.00007 | — | 37.6316  |
| Free-Standing Discount Superstore | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore       | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |

|                                  |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Regional Shopping                | 0.02999 | 0.01500 | 0.27265 | 0.22903 | 0.00164 | 0.02072 | — | 0.02072 | 0.02072 | — | 0.02072 | — | 325.320  | 325.320  | 0.02879 | 0.00061 | — | 326.223  |
| Strip Mall                       | 0.16342 | 0.08171 | 1.48561 | 1.24791 | 0.00891 | 0.11291 | — | 0.11291 | 0.11291 | — | 0.11291 | — | 1,772.58 | 1,772.58 | 0.15687 | 0.00334 | — | 1,777.49 |
| Total                            | 2.69809 | 1.34904 | 24.3702 | 19.4459 | 0.14717 | 1.86413 | — | 1.86413 | 1.86413 | — | 1.86413 | — | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | — | 29,347.3 |
| Daily, Winter (Max)              | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)        | 0.03093 | 0.01546 | 0.28115 | 0.23617 | 0.00169 | 0.02137 | — | 0.02137 | 0.02137 | — | 0.02137 | — | 335.465  | 335.465  | 0.02969 | 0.00063 | — | 336.395  |
| General Office Building          | 0.62492 | 0.31246 | 5.68107 | 4.77210 | 0.03409 | 0.43176 | — | 0.43176 | 0.43176 | — | 0.43176 | — | 6,778.46 | 6,778.46 | 0.59989 | 0.01276 | — | 6,797.26 |
| Government Office Building       | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Medical Office Building          | 0.01124 | 0.00562 | 0.10214 | 0.08580 | 0.00061 | 0.00776 | — | 0.00776 | 0.00776 | — | 0.00776 | — | 121.871  | 121.871  | 0.01079 | 0.00023 | — | 122.209  |
| Library                          | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of Worship                 | 0.20152 | 0.10076 | 1.83196 | 1.53885 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.84 | 2,185.84 | 0.19345 | 0.00412 | — | 2,191.90 |
| General Heavy Industry           | 0.07656 | 0.03828 | 0.69604 | 0.58467 | 0.00418 | 0.05290 | — | 0.05290 | 0.05290 | — | 0.05290 | — | 830.493  | 830.493  | 0.07350 | 0.00156 | — | 832.797  |
| Unrefrigerated Warehouse-No Rail | 0.20366 | 0.10183 | 1.85145 | 1.55522 | 0.01111 | 0.14071 | — | 0.14071 | 0.14071 | — | 0.14071 | — | 2,209.09 | 2,209.09 | 0.19550 | 0.00416 | — | 2,215.22 |
| Parking Lot                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |



|                                      |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | 0.14580 | 0.07290 | 1.32550 | 1.11342 | 0.00795 | 0.10074 | — | 0.10074 | 0.10074 | — | 0.10074 | — | 1,581.54 | 1,581.54 | 0.13997 | 0.00298 | — | 1,585.93 |
| Health Club                          | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |
| Motel                                | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |
| Quality Restaurant                   | 0.15223 | 0.07611 | 1.38388 | 1.16246 | 0.00830 | 0.10517 | — | 0.10517 | 0.10517 | — | 0.10517 | — | 1,651.19 | 1,651.19 | 0.14613 | 0.00311 | — | 1,655.77 |
| User Defined Recreational            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | 0.27922 | 0.13961 | 2.38602 | 1.01533 | 0.01523 | 0.19291 | — | 0.19291 | 0.19291 | — | 0.19291 | — | 3,028.64 | 3,028.64 | 0.26803 | 0.00570 | — | 3,037.04 |
| Condo/Townhouse                      | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing                | 0.00813 | 0.00407 | 0.06951 | 0.02958 | 0.00044 | 0.00562 | — | 0.00562 | 0.00562 | — | 0.00562 | — | 88.2354  | 88.2354  | 0.00781 | 0.00017 | — | 88.4801  |
| Supermarket                          | 0.03883 | 0.01942 | 0.35302 | 0.29654 | 0.00212 | 0.02683 | — | 0.02683 | 0.02683 | — | 0.02683 | — | 421.212  | 421.212  | 0.03728 | 0.00079 | — | 422.380  |
| Automobile Care Center               | 0.31107 | 0.15553 | 2.82787 | 2.37541 | 0.01697 | 0.21492 | — | 0.21492 | 0.21492 | — | 0.21492 | — | 3,374.13 | 3,374.13 | 0.29861 | 0.00635 | — | 3,383.48 |
| Convenience Market (24 hour)         | 0.00128 | 0.00064 | 0.01167 | 0.00980 | 0.00007 | 0.00089 | — | 0.00089 | 0.00089 | — | 0.00089 | — | 13.9269  | 13.9269  | 0.00123 | 0.00003 | — | 13.9655  |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Free-Standing Discount store      | 0.00346 | 0.00173 | 0.03145 | 0.02642 | 0.00019 | 0.00239 | — | 0.00239 | 0.00239 | — | 0.00239 | — | 37.5275  | 37.5275  | 0.00332 | 0.00007 | — | 37.6316  |
| Free-Standing Discount Superstore | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore       | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |
| Regional Shopping Center          | 0.02999 | 0.01500 | 0.27265 | 0.22903 | 0.00164 | 0.02072 | — | 0.02072 | 0.02072 | — | 0.02072 | — | 325.320  | 325.320  | 0.02879 | 0.00061 | — | 326.223  |
| Strip Mall                        | 0.16342 | 0.08171 | 1.48561 | 1.24791 | 0.00891 | 0.11291 | — | 0.11291 | 0.11291 | — | 0.11291 | — | 1,772.58 | 1,772.58 | 0.15687 | 0.00334 | — | 1,777.49 |
| Total                             | 2.69809 | 1.34904 | 24.3702 | 19.4459 | 0.14717 | 1.86413 | — | 1.86413 | 1.86413 | — | 1.86413 | — | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | — | 29,347.3 |
| Annual                            | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)         | 0.00564 | 0.00282 | 0.05131 | 0.04310 | 0.00031 | 0.00390 | — | 0.00390 | 0.00390 | — | 0.00390 | — | 55.5400  | 55.5400  | 0.00492 | 0.00010 | — | 55.6940  |
| General Office Building           | 0.11405 | 0.05702 | 1.03679 | 0.87091 | 0.00622 | 0.07880 | — | 0.07880 | 0.07880 | — | 0.07880 | — | 1,122.25 | 1,122.25 | 0.09932 | 0.00211 | — | 1,125.36 |
| Government Office Building        | 0.03489 | 0.01745 | 0.31720 | 0.26645 | 0.00190 | 0.02411 | — | 0.02411 | 0.02411 | — | 0.02411 | — | 343.344  | 343.344  | 0.03039 | 0.00065 | — | 344.297  |
| Medical Office Building           | 0.00205 | 0.00103 | 0.01864 | 0.01566 | 0.00011 | 0.00142 | — | 0.00142 | 0.00142 | — | 0.00142 | — | 20.1772  | 20.1772  | 0.00179 | 0.00004 | — | 20.2332  |
| Library                           | 0.00800 | 0.00400 | 0.07269 | 0.06106 | 0.00044 | 0.00552 | — | 0.00552 | 0.00552 | — | 0.00552 | — | 78.6864  | 78.6864  | 0.00696 | 0.00015 | — | 78.9046  |
| Place of Worship                  | 0.03678 | 0.01839 | 0.33433 | 0.28084 | 0.00201 | 0.02541 | — | 0.02541 | 0.02541 | — | 0.02541 | — | 361.890  | 361.890  | 0.03203 | 0.00068 | — | 362.894  |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |         |         |         |         |   |         |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|---------|---------|---------|---------|---|---------|
| General Heavy Industry               | 0.01397 | 0.00699 | 0.12703 | 0.10670 | 0.00076 | 0.00965 | — | 0.00965 | 0.00965 | — | 0.00965 | — | 137.498 | 137.498 | 0.01217 | 0.00026 | — | 137.879 |
| Unrefrigerated Warehouse-No Rail     | 0.03717 | 0.01858 | 0.33789 | 0.28383 | 0.00203 | 0.02568 | — | 0.02568 | 0.02568 | — | 0.02568 | — | 365.740 | 365.740 | 0.03237 | 0.00069 | — | 366.754 |
| Parking Lot                          | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | 0.02661 | 0.01330 | 0.24190 | 0.20320 | 0.00145 | 0.01838 | — | 0.01838 | 0.01838 | — | 0.01838 | — | 261.842 | 261.842 | 0.02317 | 0.00049 | — | 262.568 |
| Health Club                          | 0.01288 | 0.00644 | 0.11705 | 0.09832 | 0.00070 | 0.00890 | — | 0.00890 | 0.00890 | — | 0.00890 | — | 126.693 | 126.693 | 0.01121 | 0.00024 | — | 127.045 |
| Motel                                | 0.00406 | 0.00203 | 0.03695 | 0.03104 | 0.00022 | 0.00281 | — | 0.00281 | 0.00281 | — | 0.00281 | — | 39.9947 | 39.9947 | 0.00354 | 0.00008 | — | 40.1057 |
| Quality Restaurant                   | 0.02778 | 0.01389 | 0.25256 | 0.21215 | 0.00152 | 0.01919 | — | 0.01919 | 0.01919 | — | 0.01919 | — | 273.374 | 273.374 | 0.02419 | 0.00051 | — | 274.132 |
| User Defined Recreational            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | 0.05096 | 0.02548 | 0.43545 | 0.18530 | 0.00278 | 0.03521 | — | 0.03521 | 0.03521 | — | 0.03521 | — | 501.426 | 501.426 | 0.04438 | 0.00094 | — | 502.817 |
| Condo/Townhouse                      | 0.00038 | 0.00019 | 0.00323 | 0.00137 | 0.00002 | 0.00026 | — | 0.00026 | 0.00026 | — | 0.00026 | — | 3.71640 | 3.71640 | 0.00033 | 0.00001 | — | 3.72671 |
| Single Family Housing                | 0.00148 | 0.00074 | 0.01269 | 0.00540 | 0.00008 | 0.00103 | — | 0.00103 | 0.00103 | — | 0.00103 | — | 14.6084 | 14.6084 | 0.00129 | 0.00003 | — | 14.6489 |
| Supermarket                          | 0.00709 | 0.00354 | 0.06443 | 0.05412 | 0.00039 | 0.00490 | — | 0.00490 | 0.00490 | — | 0.00490 | — | 69.7364 | 69.7364 | 0.00617 | 0.00013 | — | 69.9298 |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |            |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|------------|---|----------|
| Auto Care Center                  | 0.05677 | 0.02838 | 0.51609 | 0.43351 | 0.00310 | 0.03922 | — | 0.03922 | 0.03922 | — | 0.03922 | — | 558.625  | 558.625  | 0.04944 | 0.00105    | — | 560.174  |
| Convenience Market (24 hour)      | 0.00023 | 0.00012 | 0.00213 | 0.00179 | 0.00001 | 0.00016 | — | 0.00016 | 0.00016 | — | 0.00016 | — | 2.30576  | 2.30576  | 0.00020 | < 0.000005 | — | 2.31215  |
| Free-Standing Discount store      | 0.00063 | 0.00032 | 0.00574 | 0.00482 | 0.00003 | 0.00044 | — | 0.00044 | 0.00044 | — | 0.00044 | — | 6.21311  | 6.21311  | 0.00055 | 0.00001    | — | 6.23034  |
| Free-Standing Discount Superstore | 0.00576 | 0.00288 | 0.05232 | 0.04395 | 0.00031 | 0.00398 | — | 0.00398 | 0.00398 | — | 0.00398 | — | 56.6333  | 56.6333  | 0.00501 | 0.00011    | — | 56.7903  |
| Home Improvement Superstore       | 0.00993 | 0.00496 | 0.09027 | 0.07583 | 0.00054 | 0.00686 | — | 0.00686 | 0.00686 | — | 0.00686 | — | 97.7088  | 97.7088  | 0.00865 | 0.00018    | — | 97.9798  |
| Regional Shopping Center          | 0.00547 | 0.00274 | 0.04976 | 0.04180 | 0.00030 | 0.00378 | — | 0.00378 | 0.00378 | — | 0.00378 | — | 53.8605  | 53.8605  | 0.00477 | 0.00010    | — | 54.0099  |
| Strip Mall                        | 0.02982 | 0.01491 | 0.27112 | 0.22774 | 0.00163 | 0.02061 | — | 0.02061 | 0.02061 | — | 0.02061 | — | 293.470  | 293.470  | 0.02597 | 0.00055    | — | 294.284  |
| Total                             | 0.49240 | 0.24620 | 4.44756 | 3.54888 | 0.02686 | 0.34020 | — | 0.34020 | 0.34020 | — | 0.34020 | — | 4,845.34 | 4,845.34 | 0.42881 | 0.00912    | — | 4,858.77 |

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source              | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|---------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —     | 0.00000 | 0.00000 | —      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                   |         |         |         |         |         |         |   |         |         |   |         |         |         |         |         |         |   |         |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---------|---------|---------|---------|---------|---|---------|
| Consum<br>Products                | 115.831 | 115.831 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Architect<br>ural<br>Coating<br>s | 10.7317 | 10.7317 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Landsca<br>pe<br>Equipm<br>ent    | 41.2665 | 38.1826 | 2.18023 | 251.927 | 0.01434 | 0.39349 | — | 0.39349 | 0.29732 | — | 0.29732 | —       | 975.012 | 975.012 | 0.04089 | 0.00833 | — | 978.518 |
| Total                             | 167.829 | 164.745 | 2.18023 | 251.927 | 0.01434 | 0.39349 | — | 0.39349 | 0.29732 | — | 0.29732 | 0.00000 | 975.012 | 975.012 | 0.04089 | 0.00833 | — | 978.518 |
| Daily,<br>Winter<br>(Max)         | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consum<br>er<br>Product<br>s      | 115.831 | 115.831 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Architect<br>ural<br>Coating<br>s | 10.7317 | 10.7317 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Total                             | 126.563 | 126.563 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Annual                            | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consum<br>er<br>Product<br>s      | 21.1392 | 21.1392 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Architect<br>ural<br>Coating<br>s | 1.95853 | 1.95853 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |

|                     |         |         |         |         |         |         |   |         |         |   |         |         |         |         |         |         |   |         |
|---------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---------|---------|---------|---------|---------|---|---------|
| Landscape Equipment | 5.15831 | 4.77283 | 0.27253 | 31.4908 | 0.00179 | 0.04919 | — | 0.04919 | 0.03716 | — | 0.03716 | —       | 110.565 | 110.565 | 0.00464 | 0.00094 | — | 110.962 |
| Total               | 28.2560 | 27.8705 | 0.27253 | 31.4908 | 0.00179 | 0.04919 | — | 0.04919 | 0.03716 | — | 0.03716 | 0.00000 | 110.565 | 110.565 | 0.00464 | 0.00094 | — | 110.962 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|----------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —       | —       | —       | —       | —       | — | —       |
| Bank (with Drive-Through)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.24131 | 2.91256 | 5.15387 | 0.00780 | 0.00491 | — | 6.81196 |
| General Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 241.460 | 313.774 | 555.233 | 0.84043 | 0.52892 | — | 733.862 |
| Government Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 82.5717 | 107.301 | 189.873 | 0.28740 | 0.18087 | — | 250.958 |
| Medical Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 3.06496 | 3.98288 | 7.04783 | 0.01067 | 0.00671 | — | 9.31525 |
| Library                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.50740 | 3.25834 | 5.76573 | 0.00873 | 0.00549 | — | 7.62068 |
| Place of Worship           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 11.5320 | 14.9857 | 26.5178 | 0.04014 | 0.02526 | — | 35.0490 |
| General Heavy Industry     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 32.2352 | 41.8893 | 74.1246 | 0.11220 | 0.07061 | — | 97.9718 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |          |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|----------|----------|---------|---------|---|----------|
| Unrefrigerated                       | — | — | — | — | — | — | — | — | — | — | — | 1,031.94 | 1,340.99 | 2,372.93 | 3.59178 | 2.26047 | — | 3,136.34 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 26.6010  | 34.5677  | 61.1688  | 0.09259 | 0.05827 | — | 80.8479  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 7.63131  | 9.91680  | 17.5481  | 0.02656 | 0.01672 | — | 23.1937  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.41513  | 4.43792  | 7.85306  | 0.01189 | 0.00748 | — | 10.3795  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 27.7686  | 36.0850  | 63.8536  | 0.09665 | 0.06083 | — | 84.3964  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 55.9082  | 72.6521  | 128.560  | 0.19460 | 0.12247 | — | 169.920  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 0.30139  | 0.39166  | 0.69305  | 0.00105 | 0.00066 | — | 0.91601  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.52744  | 3.00299  | 3.53043  | 0.00192 | 0.00117 | — | 3.92574  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 17.2094  | 22.3634  | 39.5728  | 0.05990 | 0.03770 | — | 52.3041  |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | 53.5256  | 69.5558  | 123.081  | 0.18630 | 0.11725 | — | 162.679  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |          |          |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|----------|----------|---------|---------|---|----------|
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.34191  | 0.44431  | 0.78622  | 0.00119 | 0.00075 | — | 1.03916  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 2.10528  | 2.73579  | 4.84107  | 0.00733 | 0.00461 | — | 6.39854  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 24.9348  | 44.1229  | 0.06679 | 0.04203 | — | 58.3181  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 43.0198  | 76.1250  | 0.11523 | 0.07252 | — | 100.616  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 18.2495  | 23.7150  | 41.9645  | 0.06352 | 0.03998 | — | 55.4652  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 99.4343  | 129.214  | 228.648  | 0.34609 | 0.21781 | — | 302.208  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 1,772.86 | 2,306.13 | 4,078.99 | 6.17074 | 3.88348 | — | 5,390.54 |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | — | — | — | —        | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | 2.24131  | 2.91256  | 5.15387  | 0.00780 | 0.00491 | — | 6.81196  |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | 241.460  | 313.774  | 555.233  | 0.84043 | 0.52892 | — | 733.862  |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | 82.5717  | 107.301  | 189.873  | 0.28740 | 0.18087 | — | 250.958  |



|                                      |   |   |   |   |   |   |   |   |   |   |   |          |          |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|----------|----------|---------|---------|---|----------|
| Medical Office Building              | — | — | — | — | — | — | — | — | — | — | — | 3.06496  | 3.98288  | 7.04783  | 0.01067 | 0.00671 | — | 9.31525  |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | 2.50740  | 3.25834  | 5.76573  | 0.00873 | 0.00549 | — | 7.62068  |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | 11.5320  | 14.9857  | 26.5178  | 0.04014 | 0.02526 | — | 35.0490  |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 32.2352  | 41.8893  | 74.1246  | 0.11220 | 0.07061 | — | 97.9718  |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 1,031.94 | 1,340.99 | 2,372.93 | 3.59178 | 2.26047 | — | 3,136.34 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 26.6010  | 34.5677  | 61.1688  | 0.09259 | 0.05827 | — | 80.8479  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 7.63131  | 9.91680  | 17.5481  | 0.02656 | 0.01672 | — | 23.1937  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.41513  | 4.43792  | 7.85306  | 0.01189 | 0.00748 | — | 10.3795  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 27.7686  | 36.0850  | 63.8536  | 0.09665 | 0.06083 | — | 84.3964  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 55.9082  | 72.6521  | 128.560  | 0.19460 | 0.12247 | — | 169.920  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |          |          |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|----------|----------|---------|---------|---|----------|
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.30139  | 0.39166  | 0.69305  | 0.00105 | 0.00066 | — | 0.91601  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.52744  | 3.00299  | 3.53043  | 0.00192 | 0.00117 | — | 3.92574  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 17.2094  | 22.3634  | 39.5728  | 0.05990 | 0.03770 | — | 52.3041  |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | 53.5256  | 69.5558  | 123.081  | 0.18630 | 0.11725 | — | 162.679  |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.34191  | 0.44431  | 0.78622  | 0.00119 | 0.00075 | — | 1.03916  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 2.10528  | 2.73579  | 4.84107  | 0.00733 | 0.00461 | — | 6.39854  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 24.9348  | 44.1229  | 0.06679 | 0.04203 | — | 58.3181  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 43.0198  | 76.1250  | 0.11523 | 0.07252 | — | 100.616  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 18.2495  | 23.7150  | 41.9645  | 0.06352 | 0.03998 | — | 55.4652  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 99.4343  | 129.214  | 228.648  | 0.34609 | 0.21781 | — | 302.208  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 1,772.86 | 2,306.13 | 4,078.99 | 6.17074 | 3.88348 | — | 5,390.54 |
| Annual                            | — | — | — | — | — | — | — | — | — | — | — | —        | —        | —        | —       | —       | — | —        |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Bank<br>(with<br>Drive-Through)                     | — | — | — | — | — | — | — | — | — | — | — | 0.37107 | 0.48221 | 0.85328 | 0.00129 | 0.00081 | — | 1.12780 |
| General<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | 39.9764 | 51.9488 | 91.9252 | 0.13914 | 0.08757 | — | 121.499 |
| Govern<br>ment<br>Office<br>Building                | — | — | — | — | — | — | — | — | — | — | — | 13.6707 | 17.7649 | 31.4356 | 0.04758 | 0.02995 | — | 41.5490 |
| Medical<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | 0.50744 | 0.65941 | 1.16685 | 0.00177 | 0.00111 | — | 1.54225 |
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | 0.41513 | 0.53945 | 0.95458 | 0.00144 | 0.00091 | — | 1.26169 |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | 1.90926 | 2.48106 | 4.39032 | 0.00665 | 0.00418 | — | 5.80276 |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | 5.33691 | 6.93525 | 12.2722 | 0.01858 | 0.01169 | — | 16.2203 |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail      | — | — | — | — | — | — | — | — | — | — | — | 170.849 | 222.016 | 392.865 | 0.59466 | 0.37425 | — | 519.257 |
| Parking<br>Lot                                      | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | 4.40410 | 5.72308 | 10.1272 | 0.01533 | 0.00965 | — | 13.3853 |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | 1.26345 | 1.64184 | 2.90529 | 0.00440 | 0.00277 | — | 3.83998 |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | 0.56541 | 0.73475 | 1.30016 | 0.00197 | 0.00124 | — | 1.71845 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | 4.59741 | 5.97428 | 10.5717 | 0.01600 | 0.01007 | — | 13.9728 |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise               | — | — | — | — | — | — | — | — | — | — | — | 9.25624 | 12.0284 | 21.2846 | 0.03222 | 0.02028 | — | 28.1323 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.04990 | 0.06484 | 0.11474 | 0.00017 | 0.00011 | — | 0.15166 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.08732 | 0.49718 | 0.58450 | 0.00032 | 0.00019 | — | 0.64995 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 2.84921 | 3.70252 | 6.55173 | 0.00992 | 0.00624 | — | 8.65954 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | 8.86177 | 11.5158 | 20.3775 | 0.03084 | 0.01941 | — | 26.9333 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.05661 | 0.07356 | 0.13017 | 0.00020 | 0.00012 | — | 0.17204 |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 0.34855 | 0.45294 | 0.80150 | 0.00121 | 0.00076 | — | 1.05935 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 3.17682 | 4.12824 | 7.30505 | 0.01106 | 0.00696 | — | 9.65522 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 5.48094 | 7.12242 | 12.6034 | 0.01908 | 0.01201 | — | 16.6581 |

|                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Regional Shopping | — | — | — | — | — | — | — | — | — | — | — | 3.02141 | 3.92629 | 6.94770 | 0.01052 | 0.00662 | — | 9.18290 |
| Strip Mall        | — | — | — | — | — | — | — | — | — | — | — | 16.4625 | 21.3928 | 37.8553 | 0.05730 | 0.03606 | — | 50.0340 |
| Total             | — | — | — | — | — | — | — | — | — | — | — | 293.518 | 381.806 | 675.324 | 1.02164 | 0.64295 | — | 892.465 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e     |
|----------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---|----------|
| Daily, Summer (Max)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —       | —       | —       | —       | —       | — | —        |
| Bank (with Drive-Through)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 13.3099 | 0.00000 | 13.3099 | 1.33028 | 0.00000 | — | 46.5668  |
| General Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 318.636 | 0.00000 | 318.636 | 31.8465 | 0.00000 | — | 1,114.80 |
| Government Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 97.4859 | 0.00000 | 97.4859 | 9.74337 | 0.00000 | — | 341.070  |
| Medical Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 66.5288 | 0.00000 | 66.5288 | 6.64931 | 0.00000 | — | 232.762  |
| Library                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 18.6119 | 0.00000 | 18.6119 | 1.86019 | 0.00000 | — | 65.1166  |
| Place of Worship           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 529.819 | 0.00000 | 529.819 | 52.9535 | 0.00000 | — | 1,853.66 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 43.5922  | 0.00000 | 43.5922  | 4.35688 | 0.00000 | — | 152.514  |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 1,057.88 | 0.00000 | 1,057.88 | 105.732 | 0.00000 | — | 3,701.17 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 254.590  | 0.00000 | 254.590  | 25.4453 | 0.00000 | — | 890.723  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 185.484  | 0.00000 | 185.484  | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 18.5893  | 0.00000 | 18.5893  | 1.85794 | 0.00000 | — | 65.0378  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 21.0532  | 0.00000 | 21.0532  | 2.10419 | 0.00000 | — | 73.6579  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 295.764  | 0.00000 | 295.764  | 29.5605 | 0.00000 | — | 1,034.78 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 1.56564  | 0.00000 | 1.56564  | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 2.53492  | 0.00000 | 2.53492  | 0.25336 | 0.00000 | — | 8.86882  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 198.578  | 0.00000 | 198.578  | 19.8472 | 0.00000 | — | 694.757  |

|                                             |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Automo<br>Care<br>Center                    | — | — | — | — | — | — | — | — | — | — | — | 548.100  | 0.00000 | 548.100  | 54.7806 | 0.00000 | — | 1,917.62 |
| Conveni<br>ence<br>Market<br>(24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 3.49843  | 0.00000 | 3.49843  | 0.34966 | 0.00000 | — | 12.2398  |
| Free-Sta<br>nding<br>Discount<br>store      | — | — | — | — | — | — | — | — | — | — | — | 30.8269  | 0.00000 | 30.8269  | 3.08104 | 0.00000 | — | 107.853  |
| Free-Sta<br>nding<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home<br>Improvement<br>Superstore           | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Regiona<br>l<br>Shoppin<br>g<br>Center      | — | — | — | — | — | — | — | — | — | — | — | 65.2410  | 0.00000 | 65.2410  | 6.52060 | 0.00000 | — | 228.256  |
| Strip<br>Mall                               | — | — | — | — | — | — | — | — | — | — | — | 355.472  | 0.00000 | 355.472  | 35.5282 | 0.00000 | — | 1,243.68 |
| Total                                       | — | — | — | — | — | — | — | — | — | — | — | 5,658.94 | 0.00000 | 5,658.94 | 565.590 | 0.00000 | — | 19,798.7 |
| Daily,<br>Winter<br>(Max)                   | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Bank<br>(with<br>Drive-Through)             | — | — | — | — | — | — | — | — | — | — | — | 13.3099  | 0.00000 | 13.3099  | 1.33028 | 0.00000 | — | 46.5668  |
| General<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | 318.636  | 0.00000 | 318.636  | 31.8465 | 0.00000 | — | 1,114.80 |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Govern<br>ment<br>Office<br>Building                | — | — | — | — | — | — | — | — | — | — | — | 97.4859  | 0.00000 | 97.4859  | 9.74337 | 0.00000 | — | 341.070  |
| Medical<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | 66.5288  | 0.00000 | 66.5288  | 6.64931 | 0.00000 | — | 232.762  |
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | 18.6119  | 0.00000 | 18.6119  | 1.86019 | 0.00000 | — | 65.1166  |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | 529.819  | 0.00000 | 529.819  | 52.9535 | 0.00000 | — | 1,853.66 |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | 43.5922  | 0.00000 | 43.5922  | 4.35688 | 0.00000 | — | 152.514  |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail      | — | — | — | — | — | — | — | — | — | — | — | 1,057.88 | 0.00000 | 1,057.88 | 105.732 | 0.00000 | — | 3,701.17 |
| Parking<br>Lot                                      | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | 254.590  | 0.00000 | 254.590  | 25.4453 | 0.00000 | — | 890.723  |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | 185.484  | 0.00000 | 185.484  | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | 18.5893  | 0.00000 | 18.5893  | 1.85794 | 0.00000 | — | 65.0378  |
| Quality<br>Restaurant                               | — | — | — | — | — | — | — | — | — | — | — | 21.0532  | 0.00000 | 21.0532  | 2.10419 | 0.00000 | — | 73.6579  |
| User<br>Defined<br>Recreational                     | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |



|                                   |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Apartments                        | — | — | — | — | — | — | — | — | — | — | — | 295.764  | 0.00000 | 295.764  | 29.5605 | 0.00000 | — | 1,034.78 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 1.56564  | 0.00000 | 1.56564  | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 2.53492  | 0.00000 | 2.53492  | 0.25336 | 0.00000 | — | 8.86882  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 198.578  | 0.00000 | 198.578  | 19.8472 | 0.00000 | — | 694.757  |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | 548.100  | 0.00000 | 548.100  | 54.7806 | 0.00000 | — | 1,917.62 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 3.49843  | 0.00000 | 3.49843  | 0.34966 | 0.00000 | — | 12.2398  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 30.8269  | 0.00000 | 30.8269  | 3.08104 | 0.00000 | — | 107.853  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 65.2410  | 0.00000 | 65.2410  | 6.52060 | 0.00000 | — | 228.256  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 355.472  | 0.00000 | 355.472  | 35.5282 | 0.00000 | — | 1,243.68 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 5,658.94 | 0.00000 | 5,658.94 | 565.590 | 0.00000 | — | 19,798.7 |
| Annual                            | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Bank<br>(with<br>Drive-Through)                     | — | — | — | — | — | — | — | — | — | — | — | 2.20361 | 0.00000 | 2.20361 | 0.22024 | 0.00000 | — | 7.70967 |
| General<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | 52.7539 | 0.00000 | 52.7539 | 5.27256 | 0.00000 | — | 184.568 |
| Govern<br>ment<br>Office<br>Building                | — | — | — | — | — | — | — | — | — | — | — | 16.1399 | 0.00000 | 16.1399 | 1.61313 | 0.00000 | — | 56.4681 |
| Medical<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | 11.0146 | 0.00000 | 11.0146 | 1.10087 | 0.00000 | — | 38.5363 |
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | 3.08141 | 0.00000 | 3.08141 | 0.30798 | 0.00000 | — | 10.7808 |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | 87.7176 | 0.00000 | 87.7176 | 8.76706 | 0.00000 | — | 306.894 |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | 7.21718 | 0.00000 | 7.21718 | 0.72133 | 0.00000 | — | 25.2505 |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail      | — | — | — | — | — | — | — | — | — | — | — | 175.144 | 0.00000 | 175.144 | 17.5051 | 0.00000 | — | 612.771 |
| Parking<br>Lot                                      | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | 0.15026 | 0.00000 | 0.15026 | 0.01502 | 0.00000 | — | 0.52572 |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | 42.1502 | 0.00000 | 42.1502 | 4.21277 | 0.00000 | — | 147.469 |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | 30.7091 | 0.00000 | 30.7091 | 3.06926 | 0.00000 | — | 107.441 |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | 3.07768 | 0.00000 | 3.07768 | 0.30760 | 0.00000 | — | 10.7678 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | 3.48559 | 0.00000 | 3.48559 | 0.34837 | 0.00000 | — | 12.1949 |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise               | — | — | — | — | — | — | — | — | — | — | — | 48.9670 | 0.00000 | 48.9670 | 4.89408 | 0.00000 | — | 171.319 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.25921 | 0.00000 | 0.25921 | 0.02591 | 0.00000 | — | 0.90689 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.41968 | 0.00000 | 0.41968 | 0.04195 | 0.00000 | — | 1.46833 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 32.8769 | 0.00000 | 32.8769 | 3.28592 | 0.00000 | — | 115.025 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | 90.7442 | 0.00000 | 90.7442 | 9.06956 | 0.00000 | — | 317.483 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.57920 | 0.00000 | 0.57920 | 0.05789 | 0.00000 | — | 2.02644 |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 5.10375 | 0.00000 | 5.10375 | 0.51010 | 0.00000 | — | 17.8563 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 46.5170 | 0.00000 | 46.5170 | 4.64921 | 0.00000 | — | 162.747 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 206.935 | 0.00000 | 206.935 | 20.6824 | 0.00000 | — | 723.996 |

|                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |          |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|----------|
| Regional Shopping | — | — | — | — | — | — | — | — | — | — | — | 10.8014 | 0.00000 | 10.8014 | 1.07956 | 0.00000 | — | 37.7904  |
| Strip Mall        | — | — | — | — | — | — | — | — | — | — | — | 58.8525 | 0.00000 | 58.8525 | 5.88210 | 0.00000 | — | 205.905  |
| Total             | — | — | — | — | — | — | — | — | — | — | — | 936.902 | 0.00000 | 936.902 | 93.6399 | 0.00000 | — | 3,277.90 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R       | CO2e    |
|----------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---------|---------|
| Daily, Summer (Max)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —       | —       |
| Bank (with Drive-Through)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.06437 | 0.06437 |
| General Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 1.54611 | 1.54611 |
| Government Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.47302 | 0.47302 |
| Medical Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.29206 | 0.29206 |
| Library                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.14486 | 0.14486 |
| Place of Worship           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.66622 | 0.66622 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 17.0572  | 17.0572  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 64.1028  | 64.1028  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986  | 0.28986  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590  | 25.0590  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 66.9260  | 66.9260  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.21470  | 4.21470  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05246  | 0.05246  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 13,543.8 | 13,543.8 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.41580  | 0.41580  |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 447.810  | 447.810  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06384  | 0.06384  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.55345  | 0.55345  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.91236  | 3.91236  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14,179.2 | 14,179.2 |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —        | —        |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06437  | 0.06437  |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.54611  | 1.54611  |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47302  | 0.47302  |
| Medical Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.29206  | 0.29206  |
| Library                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14486  | 0.14486  |
| Place of Worship                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.66622  | 0.66622  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 17.0572  | 17.0572  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 64.1028  | 64.1028  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986  | 0.28986  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590  | 25.0590  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 66.9260  | 66.9260  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.21470  | 4.21470  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05246  | 0.05246  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 13,543.8 | 13,543.8 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.41580  | 0.41580  |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 447.810  | 447.810  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06384  | 0.06384  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.55345  | 0.55345  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.91236  | 3.91236  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14,179.2 | 14,179.2 |
| Annual                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —        | —        |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01066  | 0.01066  |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.25598  | 0.25598  |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07831  | 0.07831  |
| Medical Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.04835  | 0.04835  |
| Library                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02398  | 0.02398  |
| Place of Worship                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.11030  | 0.11030  |



|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.82402  | 2.82402  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.6130  | 10.6130  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.04799  | 0.04799  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.14880  | 4.14880  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.0804  | 11.0804  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.69779  | 0.69779  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00333  | 0.00333  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00869  | 0.00869  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,242.32 | 2,242.32 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06884  | 0.06884  |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 74.1400  | 74.1400  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01057  | 0.01057  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.12500  | 0.12500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.16623  | 0.16623  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.09163  | 0.09163  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.64774  | 0.64774  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,347.52 | 2,347.52 |

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year    |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-------------|
| Total all Land Uses | 201,437       | 201,437        | 201,437      | 73,524,505 | 1,212,613   | 1,212,613    | 1,212,613  | 442,603,745 |

5.10. Operational Area Sources

5.10.1. Hearths

| Land Use                  | Hearth Type         | Unmitigated (number) | Mitigated (number) |
|---------------------------|---------------------|----------------------|--------------------|
| Bank (with Drive-Through) | Wood Fireplaces     | 0                    | 0                  |
| Bank (with Drive-Through) | Gas Fireplaces      | 0                    | 0                  |
| Bank (with Drive-Through) | Propane Fireplaces  | 0                    | 0                  |
| Bank (with Drive-Through) | Electric Fireplaces | 0                    | 0                  |

|                            |                           |   |   |
|----------------------------|---------------------------|---|---|
| Bank (with Drive-Through)  | No Fireplaces             | 0 | 0 |
| Bank (with Drive-Through)  | Conventional Wood Stoves  | 0 | 0 |
| Bank (with Drive-Through)  | Catalytic Wood Stoves     | 0 | 0 |
| Bank (with Drive-Through)  | Non-Catalytic Wood Stoves | 0 | 0 |
| Bank (with Drive-Through)  | Pellet Wood Stoves        | 0 | 0 |
| General Office Building    | Wood Fireplaces           | 0 | 0 |
| General Office Building    | Gas Fireplaces            | 0 | 0 |
| General Office Building    | Propane Fireplaces        | 0 | 0 |
| General Office Building    | Electric Fireplaces       | 0 | 0 |
| General Office Building    | No Fireplaces             | 0 | 0 |
| General Office Building    | Conventional Wood Stoves  | 0 | 0 |
| General Office Building    | Catalytic Wood Stoves     | 0 | 0 |
| General Office Building    | Non-Catalytic Wood Stoves | 0 | 0 |
| General Office Building    | Pellet Wood Stoves        | 0 | 0 |
| Government Office Building | Wood Fireplaces           | 0 | 0 |
| Government Office Building | Gas Fireplaces            | 0 | 0 |
| Government Office Building | Propane Fireplaces        | 0 | 0 |
| Government Office Building | Electric Fireplaces       | 0 | 0 |
| Government Office Building | No Fireplaces             | 0 | 0 |
| Government Office Building | Conventional Wood Stoves  | 0 | 0 |
| Government Office Building | Catalytic Wood Stoves     | 0 | 0 |
| Government Office Building | Non-Catalytic Wood Stoves | 0 | 0 |
| Government Office Building | Pellet Wood Stoves        | 0 | 0 |
| Medical Office Building    | Wood Fireplaces           | 0 | 0 |
| Medical Office Building    | Gas Fireplaces            | 0 | 0 |
| Medical Office Building    | Propane Fireplaces        | 0 | 0 |
| Medical Office Building    | Electric Fireplaces       | 0 | 0 |
| Medical Office Building    | No Fireplaces             | 0 | 0 |

|                         |                           |   |   |
|-------------------------|---------------------------|---|---|
| Medical Office Building | Conventional Wood Stoves  | 0 | 0 |
| Medical Office Building | Catalytic Wood Stoves     | 0 | 0 |
| Medical Office Building | Non-Catalytic Wood Stoves | 0 | 0 |
| Medical Office Building | Pellet Wood Stoves        | 0 | 0 |
| Library                 | Wood Fireplaces           | 0 | 0 |
| Library                 | Gas Fireplaces            | 0 | 0 |
| Library                 | Propane Fireplaces        | 0 | 0 |
| Library                 | Electric Fireplaces       | 0 | 0 |
| Library                 | No Fireplaces             | 0 | 0 |
| Library                 | Conventional Wood Stoves  | 0 | 0 |
| Library                 | Catalytic Wood Stoves     | 0 | 0 |
| Library                 | Non-Catalytic Wood Stoves | 0 | 0 |
| Library                 | Pellet Wood Stoves        | 0 | 0 |
| Place of Worship        | Wood Fireplaces           | 0 | 0 |
| Place of Worship        | Gas Fireplaces            | 0 | 0 |
| Place of Worship        | Propane Fireplaces        | 0 | 0 |
| Place of Worship        | Electric Fireplaces       | 0 | 0 |
| Place of Worship        | No Fireplaces             | 0 | 0 |
| Place of Worship        | Conventional Wood Stoves  | 0 | 0 |
| Place of Worship        | Catalytic Wood Stoves     | 0 | 0 |
| Place of Worship        | Non-Catalytic Wood Stoves | 0 | 0 |
| Place of Worship        | Pellet Wood Stoves        | 0 | 0 |
| General Heavy Industry  | Wood Fireplaces           | 0 | 0 |
| General Heavy Industry  | Gas Fireplaces            | 0 | 0 |
| General Heavy Industry  | Propane Fireplaces        | 0 | 0 |
| General Heavy Industry  | Electric Fireplaces       | 0 | 0 |
| General Heavy Industry  | No Fireplaces             | 0 | 0 |
| General Heavy Industry  | Conventional Wood Stoves  | 0 | 0 |



|                                  |                           |   |   |
|----------------------------------|---------------------------|---|---|
| General Heavy Industry           | Catalytic Wood Stoves     | 0 | 0 |
| General Heavy Industry           | Non-Catalytic Wood Stoves | 0 | 0 |
| General Heavy Industry           | Pellet Wood Stoves        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Wood Fireplaces           | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Gas Fireplaces            | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Propane Fireplaces        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Electric Fireplaces       | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | No Fireplaces             | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Conventional Wood Stoves  | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Catalytic Wood Stoves     | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Non-Catalytic Wood Stoves | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Pellet Wood Stoves        | 0 | 0 |
| Parking Lot                      | Wood Fireplaces           | 0 | 0 |
| Parking Lot                      | Gas Fireplaces            | 0 | 0 |
| Parking Lot                      | Propane Fireplaces        | 0 | 0 |
| Parking Lot                      | Electric Fireplaces       | 0 | 0 |
| Parking Lot                      | No Fireplaces             | 0 | 0 |
| Parking Lot                      | Conventional Wood Stoves  | 0 | 0 |
| Parking Lot                      | Catalytic Wood Stoves     | 0 | 0 |
| Parking Lot                      | Non-Catalytic Wood Stoves | 0 | 0 |
| Parking Lot                      | Pellet Wood Stoves        | 0 | 0 |
| City Park                        | Wood Fireplaces           | 0 | 0 |
| City Park                        | Gas Fireplaces            | 0 | 0 |
| City Park                        | Propane Fireplaces        | 0 | 0 |
| City Park                        | Electric Fireplaces       | 0 | 0 |
| City Park                        | No Fireplaces             | 0 | 0 |
| City Park                        | Conventional Wood Stoves  | 0 | 0 |
| City Park                        | Catalytic Wood Stoves     | 0 | 0 |

|                                      |                           |   |   |
|--------------------------------------|---------------------------|---|---|
| City Park                            | Non-Catalytic Wood Stoves | 0 | 0 |
| City Park                            | Pellet Wood Stoves        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Wood Fireplaces           | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Gas Fireplaces            | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Propane Fireplaces        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Electric Fireplaces       | 0 | 0 |
| Fast Food Restaurant with Drive Thru | No Fireplaces             | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Conventional Wood Stoves  | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Catalytic Wood Stoves     | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Non-Catalytic Wood Stoves | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Pellet Wood Stoves        | 0 | 0 |
| Health Club                          | Wood Fireplaces           | 0 | 0 |
| Health Club                          | Gas Fireplaces            | 0 | 0 |
| Health Club                          | Propane Fireplaces        | 0 | 0 |
| Health Club                          | Electric Fireplaces       | 0 | 0 |
| Health Club                          | No Fireplaces             | 0 | 0 |
| Health Club                          | Conventional Wood Stoves  | 0 | 0 |
| Health Club                          | Catalytic Wood Stoves     | 0 | 0 |
| Health Club                          | Non-Catalytic Wood Stoves | 0 | 0 |
| Health Club                          | Pellet Wood Stoves        | 0 | 0 |
| Motel                                | Wood Fireplaces           | 0 | 0 |
| Motel                                | Gas Fireplaces            | 0 | 0 |
| Motel                                | Propane Fireplaces        | 0 | 0 |
| Motel                                | Electric Fireplaces       | 0 | 0 |
| Motel                                | No Fireplaces             | 0 | 0 |
| Motel                                | Conventional Wood Stoves  | 0 | 0 |
| Motel                                | Catalytic Wood Stoves     | 0 | 0 |
| Motel                                | Non-Catalytic Wood Stoves | 0 | 0 |

|                           |                           |     |     |
|---------------------------|---------------------------|-----|-----|
| Motel                     | Pellet Wood Stoves        | 0   | 0   |
| Quality Restaurant        | Wood Fireplaces           | 0   | 0   |
| Quality Restaurant        | Gas Fireplaces            | 0   | 0   |
| Quality Restaurant        | Propane Fireplaces        | 0   | 0   |
| Quality Restaurant        | Electric Fireplaces       | 0   | 0   |
| Quality Restaurant        | No Fireplaces             | 0   | 0   |
| Quality Restaurant        | Conventional Wood Stoves  | 0   | 0   |
| Quality Restaurant        | Catalytic Wood Stoves     | 0   | 0   |
| Quality Restaurant        | Non-Catalytic Wood Stoves | 0   | 0   |
| Quality Restaurant        | Pellet Wood Stoves        | 0   | 0   |
| User Defined Recreational | Wood Fireplaces           | 0   | 0   |
| User Defined Recreational | Gas Fireplaces            | 0   | 0   |
| User Defined Recreational | Propane Fireplaces        | 0   | 0   |
| User Defined Recreational | Electric Fireplaces       | 0   | 0   |
| User Defined Recreational | No Fireplaces             | 0   | 0   |
| User Defined Recreational | Conventional Wood Stoves  | 0   | 0   |
| User Defined Recreational | Catalytic Wood Stoves     | 0   | 0   |
| User Defined Recreational | Non-Catalytic Wood Stoves | 0   | 0   |
| User Defined Recreational | Pellet Wood Stoves        | 0   | 0   |
| Apartments Low Rise       | Wood Fireplaces           | 0   | 0   |
| Apartments Low Rise       | Gas Fireplaces            | 0   | 0   |
| Apartments Low Rise       | Propane Fireplaces        | 0   | 0   |
| Apartments Low Rise       | Electric Fireplaces       | 0   | 0   |
| Apartments Low Rise       | No Fireplaces             | 742 | 742 |
| Apartments Low Rise       | Conventional Wood Stoves  | 0   | 0   |
| Apartments Low Rise       | Catalytic Wood Stoves     | 0   | 0   |
| Apartments Low Rise       | Non-Catalytic Wood Stoves | 0   | 0   |
| Apartments Low Rise       | Pellet Wood Stoves        | 0   | 0   |

|                        |                           |   |   |
|------------------------|---------------------------|---|---|
| Condo/Townhouse        | Wood Fireplaces           | 0 | 0 |
| Condo/Townhouse        | Gas Fireplaces            | 0 | 0 |
| Condo/Townhouse        | Propane Fireplaces        | 0 | 0 |
| Condo/Townhouse        | Electric Fireplaces       | 0 | 0 |
| Condo/Townhouse        | No Fireplaces             | 4 | 4 |
| Condo/Townhouse        | Conventional Wood Stoves  | 0 | 0 |
| Condo/Townhouse        | Catalytic Wood Stoves     | 0 | 0 |
| Condo/Townhouse        | Non-Catalytic Wood Stoves | 0 | 0 |
| Condo/Townhouse        | Pellet Wood Stoves        | 0 | 0 |
| Single Family Housing  | Wood Fireplaces           | 0 | 0 |
| Single Family Housing  | Gas Fireplaces            | 0 | 0 |
| Single Family Housing  | Propane Fireplaces        | 0 | 0 |
| Single Family Housing  | Electric Fireplaces       | 0 | 0 |
| Single Family Housing  | No Fireplaces             | 7 | 7 |
| Single Family Housing  | Conventional Wood Stoves  | 0 | 0 |
| Single Family Housing  | Catalytic Wood Stoves     | 0 | 0 |
| Single Family Housing  | Non-Catalytic Wood Stoves | 0 | 0 |
| Single Family Housing  | Pellet Wood Stoves        | 0 | 0 |
| Supermarket            | Wood Fireplaces           | 0 | 0 |
| Supermarket            | Gas Fireplaces            | 0 | 0 |
| Supermarket            | Propane Fireplaces        | 0 | 0 |
| Supermarket            | Electric Fireplaces       | 0 | 0 |
| Supermarket            | No Fireplaces             | 0 | 0 |
| Supermarket            | Conventional Wood Stoves  | 0 | 0 |
| Supermarket            | Catalytic Wood Stoves     | 0 | 0 |
| Supermarket            | Non-Catalytic Wood Stoves | 0 | 0 |
| Supermarket            | Pellet Wood Stoves        | 0 | 0 |
| Automobile Care Center | Wood Fireplaces           | 0 | 0 |

|                                   |                           |   |   |
|-----------------------------------|---------------------------|---|---|
| Automobile Care Center            | Gas Fireplaces            | 0 | 0 |
| Automobile Care Center            | Propane Fireplaces        | 0 | 0 |
| Automobile Care Center            | Electric Fireplaces       | 0 | 0 |
| Automobile Care Center            | No Fireplaces             | 0 | 0 |
| Automobile Care Center            | Conventional Wood Stoves  | 0 | 0 |
| Automobile Care Center            | Catalytic Wood Stoves     | 0 | 0 |
| Automobile Care Center            | Non-Catalytic Wood Stoves | 0 | 0 |
| Automobile Care Center            | Pellet Wood Stoves        | 0 | 0 |
| Convenience Market (24 hour)      | Wood Fireplaces           | 0 | 0 |
| Convenience Market (24 hour)      | Gas Fireplaces            | 0 | 0 |
| Convenience Market (24 hour)      | Propane Fireplaces        | 0 | 0 |
| Convenience Market (24 hour)      | Electric Fireplaces       | 0 | 0 |
| Convenience Market (24 hour)      | No Fireplaces             | 0 | 0 |
| Convenience Market (24 hour)      | Conventional Wood Stoves  | 0 | 0 |
| Convenience Market (24 hour)      | Catalytic Wood Stoves     | 0 | 0 |
| Convenience Market (24 hour)      | Non-Catalytic Wood Stoves | 0 | 0 |
| Convenience Market (24 hour)      | Pellet Wood Stoves        | 0 | 0 |
| Free-Standing Discount store      | Wood Fireplaces           | 0 | 0 |
| Free-Standing Discount store      | Gas Fireplaces            | 0 | 0 |
| Free-Standing Discount store      | Propane Fireplaces        | 0 | 0 |
| Free-Standing Discount store      | Electric Fireplaces       | 0 | 0 |
| Free-Standing Discount store      | No Fireplaces             | 0 | 0 |
| Free-Standing Discount store      | Conventional Wood Stoves  | 0 | 0 |
| Free-Standing Discount store      | Catalytic Wood Stoves     | 0 | 0 |
| Free-Standing Discount store      | Non-Catalytic Wood Stoves | 0 | 0 |
| Free-Standing Discount store      | Pellet Wood Stoves        | 0 | 0 |
| Free-Standing Discount Superstore | Wood Fireplaces           | 0 | 0 |
| Free-Standing Discount Superstore | Gas Fireplaces            | 0 | 0 |

|                                   |                           |   |   |
|-----------------------------------|---------------------------|---|---|
| Free-Standing Discount Superstore | Propane Fireplaces        | 0 | 0 |
| Free-Standing Discount Superstore | Electric Fireplaces       | 0 | 0 |
| Free-Standing Discount Superstore | No Fireplaces             | 0 | 0 |
| Free-Standing Discount Superstore | Conventional Wood Stoves  | 0 | 0 |
| Free-Standing Discount Superstore | Catalytic Wood Stoves     | 0 | 0 |
| Free-Standing Discount Superstore | Non-Catalytic Wood Stoves | 0 | 0 |
| Free-Standing Discount Superstore | Pellet Wood Stoves        | 0 | 0 |
| Home Improvement Superstore       | Wood Fireplaces           | 0 | 0 |
| Home Improvement Superstore       | Gas Fireplaces            | 0 | 0 |
| Home Improvement Superstore       | Propane Fireplaces        | 0 | 0 |
| Home Improvement Superstore       | Electric Fireplaces       | 0 | 0 |
| Home Improvement Superstore       | No Fireplaces             | 0 | 0 |
| Home Improvement Superstore       | Conventional Wood Stoves  | 0 | 0 |
| Home Improvement Superstore       | Catalytic Wood Stoves     | 0 | 0 |
| Home Improvement Superstore       | Non-Catalytic Wood Stoves | 0 | 0 |
| Home Improvement Superstore       | Pellet Wood Stoves        | 0 | 0 |
| Regional Shopping Center          | Wood Fireplaces           | 0 | 0 |
| Regional Shopping Center          | Gas Fireplaces            | 0 | 0 |
| Regional Shopping Center          | Propane Fireplaces        | 0 | 0 |
| Regional Shopping Center          | Electric Fireplaces       | 0 | 0 |
| Regional Shopping Center          | No Fireplaces             | 0 | 0 |
| Regional Shopping Center          | Conventional Wood Stoves  | 0 | 0 |
| Regional Shopping Center          | Catalytic Wood Stoves     | 0 | 0 |
| Regional Shopping Center          | Non-Catalytic Wood Stoves | 0 | 0 |
| Regional Shopping Center          | Pellet Wood Stoves        | 0 | 0 |
| Strip Mall                        | Wood Fireplaces           | 0 | 0 |
| Strip Mall                        | Gas Fireplaces            | 0 | 0 |
| Strip Mall                        | Propane Fireplaces        | 0 | 0 |

|            |                           |   |   |
|------------|---------------------------|---|---|
| Strip Mall | Electric Fireplaces       | 0 | 0 |
| Strip Mall | No Fireplaces             | 0 | 0 |
| Strip Mall | Conventional Wood Stoves  | 0 | 0 |
| Strip Mall | Catalytic Wood Stoves     | 0 | 0 |
| Strip Mall | Non-Catalytic Wood Stoves | 0 | 0 |
| Strip Mall | Pellet Wood Stoves        | 0 | 0 |

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 1,212,199                                | 404,066                                  | 7,219,523                                    | 2,406,508                                    | 16,896.6                    |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value   |
|-------------|--------|---------|
| Snow Days   | day/yr | 0.00000 |
| Summer Days | day/yr | 250.000 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBtu/yr)

| Land Use                   | Electricity (kWh/yr) | CO2     | CH4    | N2O    | Natural Gas (kBtu/yr) |
|----------------------------|----------------------|---------|--------|--------|-----------------------|
| Bank (with Drive-Through)  | 237,982              | 374.840 | 0.0129 | 0.0017 | 1,046,740             |
| General Office Building    | 14,637,398           | 374.840 | 0.0129 | 0.0017 | 21,150,607            |
| Government Office Building | 4,478,201            | 374.840 | 0.0129 | 0.0017 | 6,470,868             |
| Medical Office Building    | 263,169              | 374.840 | 0.0129 | 0.0017 | 380,271               |
| Library                    | 337,161              | 374.840 | 0.0129 | 0.0017 | 1,482,970             |
| Place of Worship           | 1,550,652            | 374.840 | 0.0129 | 0.0017 | 6,820,396             |

|                                      |            |         |        |        |            |
|--------------------------------------|------------|---------|--------|--------|------------|
| General Heavy Industry               | 589,159    | 374.840 | 0.0129 | 0.0017 | 2,591,361  |
| Unrefrigerated Warehouse-No Rail     | 17,620,639 | 374.840 | 0.0129 | 0.0017 | 6,892,949  |
| Parking Lot                          | 246,690    | 374.840 | 0.0129 | 0.0017 | 0.00000    |
| City Park                            | 0.00000    | 374.840 | 0.0129 | 0.0017 | 0.00000    |
| Fast Food Restaurant with Drive Thru | 1,601,754  | 374.840 | 0.0129 | 0.0017 | 4,934,829  |
| Health Club                          | 542,865    | 374.840 | 0.0129 | 0.0017 | 2,387,740  |
| Motel                                | 99,553.6   | 374.840 | 0.0129 | 0.0017 | 753,765    |
| Quality Restaurant                   | 1,672,299  | 374.840 | 0.0129 | 0.0017 | 5,152,171  |
| User Defined Recreational            | 0.00000    | 374.840 | 0.0129 | 0.0017 | 0.00000    |
| Apartments Low Rise                  | 3,671,674  | 374.840 | 0.0129 | 0.0017 | 9,450,175  |
| Condo/Townhouse                      | 24,910.8   | 374.840 | 0.0129 | 0.0017 | 70,041.5   |
| Single Family Housing                | 62,357.5   | 374.840 | 0.0129 | 0.0017 | 275,318    |
| Supermarket                          | 3,099,262  | 374.840 | 0.0129 | 0.0017 | 1,314,294  |
| Automobile Care Center               | 2,393,634  | 374.840 | 0.0129 | 0.0017 | 10,528,177 |
| Convenience Market (24 hour)         | 102,474    | 374.840 | 0.0129 | 0.0017 | 43,455.7   |
| Free-Standing Discount store         | 124,496    | 374.840 | 0.0129 | 0.0017 | 117,096    |
| Free-Standing Discount Superstore    | 1,134,797  | 374.840 | 0.0129 | 0.0017 | 1,067,344  |
| Home Improvement Superstore          | 1,957,854  | 374.840 | 0.0129 | 0.0017 | 1,841,477  |
| Regional Shopping Center             | 1,079,238  | 374.840 | 0.0129 | 0.0017 | 1,015,087  |
| Strip Mall                           | 5,880,451  | 374.840 | 0.0129 | 0.0017 | 5,530,911  |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                  | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---------------------------|-------------------------|--------------------------|
| Bank (with Drive-Through) | 1,048,819               | 0.00000                  |



|                                      |             |           |
|--------------------------------------|-------------|-----------|
| General Office Building              | 112,990,676 | 0.00000   |
| Government Office Building           | 38,639,309  | 0.00000   |
| Medical Office Building              | 1,434,243   | 0.00000   |
| Library                              | 1,173,334   | 0.00000   |
| Place of Worship                     | 5,396,398   | 0.00000   |
| General Heavy Industry               | 15,084,438  | 0.00000   |
| Unrefrigerated Warehouse-No Rail     | 482,893,938 | 0.00000   |
| Parking Lot                          | 0.00000     | 0.00000   |
| City Park                            | 0.00000     | 0.00000   |
| Fast Food Restaurant with Drive Thru | 12,447,918  | 0.00000   |
| Health Club                          | 3,571,063   | 0.00000   |
| Motel                                | 1,598,107   | 0.00000   |
| Quality Restaurant                   | 12,994,278  | 0.00000   |
| User Defined Recreational            | 0.00000     | 0.00000   |
| Apartments Low Rise                  | 26,162,178  | 0.00000   |
| Condo/Townhouse                      | 141,036     | 0.00000   |
| Single Family Housing                | 246,813     | 1,399,567 |
| Supermarket                          | 8,053,112   | 0.00000   |
| Automobile Care Center               | 25,047,213  | 0.00000   |
| Convenience Market (24 hour)         | 159,997     | 0.00000   |
| Free-Standing Discount store         | 985,165     | 0.00000   |
| Free-Standing Discount Superstore    | 8,979,071   | 0.00000   |
| Home Improvement Superstore          | 15,491,527  | 0.00000   |
| Regional Shopping Center             | 8,539,821   | 0.00000   |
| Strip Mall                           | 46,530,136  | 0.00000   |

### 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                             | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------------|------------------|-------------------------|
| Bank (with Drive-Through)            | 24.6965          | 0.00000                 |
| General Office Building              | 591.229          | 0.00000                 |
| Government Office Building           | 180.885          | 0.00000                 |
| Medical Office Building              | 123.444          | 0.00000                 |
| Library                              | 34.5343          | 0.00000                 |
| Place of Worship                     | 983.079          | 0.00000                 |
| General Heavy Industry               | 80.8852          | 0.00000                 |
| Unrefrigerated Warehouse-No Rail     | 1,962.90         | 0.00000                 |
| Parking Lot                          | 0.00000          | 0.00000                 |
| City Park                            | 1.68405          | 0.00000                 |
| Fast Food Restaurant with Drive Thru | 472.391          | 0.00000                 |
| Health Club                          | 344.166          | 0.00000                 |
| Motel                                | 34.4925          | 0.00000                 |
| Quality Restaurant                   | 39.0641          | 0.00000                 |
| User Defined Recreational            | 0.00000          | 0.00000                 |
| Apartments Low Rise                  | 548.789          | 0.00000                 |
| Condo/Townhouse                      | 2.90504          | 0.00000                 |
| Single Family Housing                | 4.70354          | 0.00000                 |
| Supermarket                          | 368.461          | 0.00000                 |
| Automobile Care Center               | 1,017.00         | 0.00000                 |
| Convenience Market (24 hour)         | 6.49133          | 0.00000                 |
| Free-Standing Discount store         | 57.1993          | 0.00000                 |
| Free-Standing Discount Superstore    | 521.331          | 0.00000                 |
| Home Improvement Superstore          | 2,319.19         | 0.00000                 |
| Regional Shopping Center             | 121.055          | 0.00000                 |
| Strip Mall                           | 659.578          | 0.00000                 |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use                   | Equipment Type                                | Refrigerant | GWP      | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|----------------------------|-----------------------------------------------|-------------|----------|---------------|----------------------|-------------------|----------------|
| Bank (with Drive-Through)  | Household refrigerators and/or freezers       | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| Bank (with Drive-Through)  | Other commercial A/C and heat pumps           | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| General Office Building    | Household refrigerators and/or freezers       | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| General Office Building    | Other commercial A/C and heat pumps           | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| Government Office Building | Household refrigerators and/or freezers       | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| Government Office Building | Other commercial A/C and heat pumps           | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| Medical Office Building    | Household refrigerators and/or freezers       | R-134a      | 1,430.00 | 0.45455       | 0.60000              | 0.00000           | 1.000000       |
| Medical Office Building    | Other commercial A/C and heat pumps           | R-410A      | 2,088.00 | 0.00230       | 4.00000              | 4.00000           | 18.0000        |
| Library                    | Household refrigerators and/or freezers       | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| Library                    | Other commercial A/C and heat pumps           | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| Library                    | Stand-alone retail refrigerators and freezers | R-134a      | 1,430.00 | 0.00004       | 1.000000             | 0.00000           | 1.000000       |
| Library                    | Walk-in refrigerators and freezers            | R-404A      | 3,922.00 | 0.00040       | 7.50000              | 7.50000           | 20.0000        |

|                                      |                                               |        |          |         |          |         |          |
|--------------------------------------|-----------------------------------------------|--------|----------|---------|----------|---------|----------|
| Place of Worship                     | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.01679 | 0.60000  | 0.00000 | 1.000000 |
| Place of Worship                     | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Place of Worship                     | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.00004 | 1.000000 | 0.00000 | 1.000000 |
| Place of Worship                     | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| General Heavy Industry               | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.30000 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Health Club                          | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Health Club                          | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Motel                                | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Motel                                | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Motel                                | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |

|                              |                                                         |        |          |         |         |         |          |
|------------------------------|---------------------------------------------------------|--------|----------|---------|---------|---------|----------|
| Quality Restaurant           | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.00000 | 0.60000 | 0.00000 | 1.000000 |
| Quality Restaurant           | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 1.80000 | 4.00000 | 4.00000 | 18.0000  |
| Quality Restaurant           | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000 | 7.50000 | 20.0000  |
| Apartments Low Rise          | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000 | 2.50000 | 10.00000 |
| Apartments Low Rise          | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000 | 0.00000 | 1.000000 |
| Condo/Townhouse              | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000 | 2.50000 | 10.00000 |
| Condo/Townhouse              | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000 | 0.00000 | 1.000000 |
| Single Family Housing        | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000 | 2.50000 | 10.00000 |
| Single Family Housing        | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000 | 0.00000 | 1.000000 |
| Supermarket                  | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 0.00180 | 4.00000 | 4.00000 | 18.0000  |
| Supermarket                  | Supermarket refrigeration and condensing units          | R-404A | 3,922.00 | 26.5200 | 16.5000 | 16.5000 | 18.0000  |
| Automobile Care Center       | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 0.00180 | 4.00000 | 4.00000 | 18.0000  |
| Convenience Market (24 hour) | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 0.00180 | 4.00000 | 4.00000 | 18.0000  |
| Convenience Market (24 hour) | Supermarket refrigeration and condensing units          | R-404A | 3,922.00 | 26.5200 | 16.5000 | 16.5000 | 18.0000  |

|                                   |                                               |        |          |         |          |         |          |
|-----------------------------------|-----------------------------------------------|--------|----------|---------|----------|---------|----------|
| Free-Standing Discount store      | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Free-Standing Discount store      | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Free-Standing Discount Superstore | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Free-Standing Discount Superstore | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Free-Standing Discount Superstore | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Home Improvement Superstore       | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Home Improvement Superstore       | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Regional Shopping Center          | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Regional Shopping Center          | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Strip Mall                        | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Strip Mall                        | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Strip Mall                        | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                        |
|------------------------------|-----------------------------|-----------------------------|
| Temperature and Extreme Heat | 21.7600                     | annual days of extreme heat |

|                       |         |                                            |
|-----------------------|---------|--------------------------------------------|
| Extreme Precipitation | 6.35000 | annual days with precipitation above 20 mm |
| Sea Level Rise        | —       | meters of inundation depth                 |
| Wildfire              | 0.00000 | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|----------------|----------------|-------------------|-------------------------|---------------------|
|----------------|----------------|-------------------|-------------------------|---------------------|



|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Temperature and Extreme Heat | 1   | 1   | 1   | 2   |
| Extreme Precipitation        | 2   | 1   | 1   | 3   |
| Sea Level Rise               | N/A | N/A | N/A | N/A |
| Wildfire                     | 1   | 1   | 1   | 2   |
| Flooding                     | 1   | 1   | 1   | 2   |
| Drought                      | 1   | 1   | 1   | 2   |
| Snowpack Reduction           | N/A | N/A | N/A | N/A |
| Air Quality Degradation      | 1   | 1   | 1   | 2   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58.2327                         |
| AQ-PM               | 37.4362                         |
| AQ-DPM              | 27.4549                         |
| Drinking Water      | 61.0716                         |
| Lead Risk Housing   | 92.2495                         |
| Pesticides          | 7.24138                         |
| Toxic Releases      | 21.8055                         |
| Traffic             | 47.0125                         |

|                                 |         |
|---------------------------------|---------|
| Effect Indicators               | —       |
| CleanUp Sites                   | 80.9444 |
| Groundwater                     | 99.2197 |
| Haz Waste Facilities/Generators | 61.5751 |
| Impaired Water Bodies           | 0.00000 |
| Solid Waste                     | 52.8981 |
| Sensitive Population            | —       |
| Asthma                          | 93.3699 |
| Cardio-vascular                 | 69.1550 |
| Low Birth Weights               | 79.4072 |
| Socioeconomic Factor Indicators | —       |
| Education                       | 62.8575 |
| Housing                         | 73.4094 |
| Linguistic                      | 39.2069 |
| Poverty                         | 91.6080 |
| Unemployment                    | 65.6299 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 10.16296677                     |
| Employed               | 6.274862056                     |
| Median HI              | 6.672654947                     |
| Education              | —                               |
| Bachelor's or higher   | 19.73566021                     |
| High school enrollment | 12.79353266                     |
| Preschool enrollment   | 42.65366354                     |

|                                              |             |
|----------------------------------------------|-------------|
| Transportation                               | —           |
| Auto Access                                  | 24.89413576 |
| Active commuting                             | 74.06646991 |
| Social                                       | —           |
| 2-parent households                          | 39.00936738 |
| Voting                                       | 13.02450917 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 41.6527653  |
| Park access                                  | 47.42717824 |
| Retail density                               | 38.27794174 |
| Supermarket access                           | 72.19299371 |
| Tree canopy                                  | 82.34312845 |
| Housing                                      | —           |
| Homeownership                                | 23.13614782 |
| Housing habitability                         | 24.91979982 |
| Low-inc homeowner severe housing cost burden | 13.20415758 |
| Low-inc renter severe housing cost burden    | 43.7957141  |
| Uncrowded housing                            | 25.445913   |
| Health Outcomes                              | —           |
| Insured adults                               | 37.80315668 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 5.9         |
| High Blood Pressure                          | 0.0         |
| Cancer (excluding skin)                      | 0.0         |
| Asthma                                       | 0.0         |
| Coronary Heart Disease                       | 0.0         |
| Chronic Obstructive Pulmonary Disease        | 0.0         |
| Diagnosed Diabetes                           | 0.0         |

|                                       |      |
|---------------------------------------|------|
| Life Expectancy at Birth              | 5.5  |
| Cognitively Disabled                  | 4.0  |
| Physically Disabled                   | 5.6  |
| Heart Attack ER Admissions            | 16.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 96.7 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 16.3 |
| Elderly                               | 67.6 |
| English Speaking                      | 43.4 |
| Foreign-born                          | 30.0 |
| Outdoor Workers                       | 48.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 51.3 |
| Traffic Density                       | 47.2 |
| Traffic Access                        | 66.1 |
| Other Indices                         | —    |
| Hardship                              | 80.5 |

|                        |     |
|------------------------|-----|
| Other Decision Support | —   |
| 2016 Voting            | 6.4 |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83.0000                         |
| Healthy Places Index Score for Project Location (b)                                 | 13.0000                         |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.  
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

| Screen   | Justification                                                                             |
|----------|-------------------------------------------------------------------------------------------|
| Land Use | All existing land uses within Specific Plan Area per Development Assumptions spreadsheet. |

8.3. Land Use

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| Lot Area        | acre   | 0.60767       | 2.01200   |
| Building Area   | sq. ft | 26,470.0      | 26,469.0  |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 14.5944       | 47.6662   |
| Building Area   | sq. ft | 635,730       | 635,734   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 4.46511       | 8.73600   |
| Building Area   | sq. ft | 194,500       | 194,498   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 0.26240       | 1.00600   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 0.86088       | 6.55100   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 3.95937       | 23.8850   |
| Building Area   | sq. ft | 172,470       | 172,468   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 1.49747       | 11.2660   |
| Building Area   | sq. ft | 65,230.0      | 65,528.0  |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 47.9382       | 129.931   |
| Building Area   | sq. ft | 2,088,190     | 2,088,194 |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 0.94146       | 10.7410   |
| Building Area   | sq. ft | 41,010.0      | 41,006.0  |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 1.38613       | 5.36800   |
| Building Area   | sq. ft | 60,380.0      | 60,379.0  |

|                |        |          |          |
|----------------|--------|----------|----------|
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.83500  | 1.06900  |
| Building Area  | sq. ft | 123,493  | 16,030.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.98278  | 7.04500  |
| Building Area  | sq. ft | 42,810.0 | 42,812.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.00000  | 0.87300  |
| Building Area  | sq. ft | 0.00000  | 136.000  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 46.3750  | 32.4140  |
| Building Area  | sq. ft | 786,520  | 588,481  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.25000  | 0.39700  |
| Building Area  | sq. ft | 4,240.00 | 2,811.00 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.27273  | 2.73900  |
| Building Area  | sq. ft | 13,650.0 | 7,325.00 |
| Lot Area       | acre   | 1.49977  | 5.66600  |
| Building Area  | sq. ft | 65,330.0 | 65,328.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 6.11180  | 27.6610  |
| Building Area  | sq. ft | 266,230  | 266,227  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.04959  | 0.50700  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.30533  | 1.50500  |
| Building Area  | sq. ft | 13,300.0 | 13,299.0 |

|                |        |         |         |
|----------------|--------|---------|---------|
| Landscape Area | sq. ft | —       | 0.00000 |
| Lot Area       | acre   | 2.78283 | 7.64800 |
| Building Area  | sq. ft | 121,220 | 121,222 |
| Landscape Area | sq. ft | —       | 0.00000 |
| Lot Area       | acre   | 4.80119 | 15.5080 |
| Building Area  | sq. ft | 209,140 | 209,143 |
| Landscape Area | sq. ft | —       | 0.00000 |
| Lot Area       | acre   | 2.64669 | 8.13600 |
| Building Area  | sq. ft | 115,290 | 115,287 |
| Landscape Area | sq. ft | —       | 0.00000 |
| Lot Area       | acre   | 14.4208 | 62.8630 |
| Building Area  | sq. ft | 628,170 | 628,165 |
| Landscape Area | sq. ft | —       | 0.00000 |



# North Watt SP - Operations Baseline 2050 Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                    |
|-----------------------------|------------------------------------------|
| Project Name                | North Watt SP - Operations Baseline 2050 |
| Operational Year            | 2050                                     |
| Lead Agency                 | —                                        |
| Land Use Scale              | Project/site                             |
| Analysis Level for Defaults | County                                   |
| Windspeed (m/s)             | 3.50000                                  |
| Precipitation (days)        | 39.2000                                  |
| Location                    | 38.6729879394575, -121.38420471265154    |
| County                      | Sacramento                               |
| City                        | Unincorporated                           |
| Air District                | Sacramento Metropolitan AQMD             |
| Air Basin                   | Sacramento Valley                        |
| TAZ                         | 631                                      |
| EDFZ                        | 13                                       |
| Electric Utility            | Sacramento Municipal Utility District    |
| Gas Utility                 | Pacific Gas & Electric                   |
| App Version                 | 2022.1.1.43                              |

## 1.2. Land Use Types

| Land Use Subtype          | Size    | Unit     | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---------------------------|---------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Bank (with Drive-Through) | 26.4700 | 1000sqft | 2.01200     | 26,469.0              | 0.00000                | —                              | —          | —           |

|                                      |          |                   |         |           |          |         |          |   |
|--------------------------------------|----------|-------------------|---------|-----------|----------|---------|----------|---|
| General Office Building              | 635.730  | 1000sqft          | 47.6662 | 635,734   | 0.00000  | —       | —        | — |
| Government Office Building           | 194.500  | 1000sqft          | 8.73600 | 194,498   | 0.00000  | —       | —        | — |
| Medical Office Building              | 11.4300  | 1000sqft          | 1.00600 | 11,430.0  | 0.00000  | —       | —        | — |
| Library                              | 37.5000  | 1000sqft          | 6.55100 | 37,500.0  | 0.00000  | —       | —        | — |
| Place of Worship                     | 172.470  | 1000sqft          | 23.8850 | 172,468   | 0.00000  | —       | —        | — |
| General Heavy Industry               | 65.2300  | 1000sqft          | 11.2660 | 65,528.0  | 0.00000  | —       | —        | — |
| Unrefrigerated Warehouse-No Rail     | 2,088.19 | 1000sqft          | 129.931 | 2,088,194 | 0.00000  | —       | —        | — |
| Parking Lot                          | 281.610  | 1000sqft          | 6.46488 | 0.00000   | 0.00000  | —       | —        | — |
| City Park                            | 19.5820  | Acre              | 19.5820 | 0.00000   | 0.00000  | 0.00000 | —        | — |
| Fast Food Restaurant with Drive Thru | 41.0100  | 1000sqft          | 10.7410 | 41,006.0  | 0.00000  | —       | —        | — |
| Health Club                          | 60.3800  | 1000sqft          | 5.36800 | 60,379.0  | 0.00000  | —       | —        | — |
| Motel                                | 63.0000  | Room              | 1.06900 | 16,030.0  | 0.00000  | —       | —        | — |
| Quality Restaurant                   | 42.8100  | 1000sqft          | 7.04500 | 42,812.0  | 0.00000  | —       | —        | — |
| User Defined Recreational            | 1.000000 | User Defined Unit | 0.87300 | 136.000   | 0.00000  | —       | —        | — |
| Apartments Low Rise                  | 742.000  | Dwelling Unit     | 32.4140 | 588,481   | 0.00000  | —       | 2,078.00 | — |
| Condo/Townhouse                      | 4.00000  | Dwelling Unit     | 0.39700 | 2,811.00  | 0.00000  | —       | 11.0000  | — |
| Single Family Housing                | 7.00000  | Dwelling Unit     | 2.73900 | 7,325.00  | 81,990.0 | —       | 20.0000  | — |
| Supermarket                          | 65.3300  | 1000sqft          | 5.66600 | 65,328.0  | 0.00000  | —       | —        | — |
| Automobile Care Center               | 266.230  | 1000sqft          | 27.6610 | 266,227   | 0.00000  | —       | —        | — |
| Convenience Market (24 hour)         | 2.16000  | 1000sqft          | 0.50700 | 2,160.00  | 0.00000  | —       | —        | — |

|                                   |         |          |         |          |         |   |   |   |
|-----------------------------------|---------|----------|---------|----------|---------|---|---|---|
| Free-Standing Discount store      | 13.3000 | 1000sqft | 1.50500 | 13,299.0 | 0.00000 | — | — | — |
| Free-Standing Discount Superstore | 121.220 | 1000sqft | 7.64800 | 121,222  | 0.00000 | — | — | — |
| Home Improvement Superstore       | 209.140 | 1000sqft | 15.5080 | 209,143  | 0.00000 | — | — | — |
| Regional Shopping Center          | 115.290 | 1000sqft | 8.13600 | 115,287  | 0.00000 | — | — | — |
| Strip Mall                        | 628.170 | 1000sqft | 62.8630 | 628,165  | 0.00000 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG     | ROG     | NOx     | CO       | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2   | CO2T    | CH4     | N2O     | R        | CO2e    |
|---------------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|---------|
| Daily, Summer (Max) | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |
| Unmit.              | 642.922 | 611.438 | 283.961 | 3,798.58 | 9.05431 | 5.44917 | 956.856 | 962.305 | 5.15031 | 242.704 | 247.854 | 7,431.80 | 937,045 | 944,477 | 603.592 | 40.6084 | 14,281.2 | 985,949 |
| Daily, Winter (Max) | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |
| Unmit.              | 573.035 | 543.720 | 328.766 | 3,048.77 | 8.23519 | 5.06176 | 956.856 | 961.917 | 4.85812 | 242.704 | 247.562 | 7,431.80 | 854,673 | 862,105 | 607.798 | 44.2026 | 14,181.8 | 904,654 |
| Average Daily (Max) | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |
| Unmit.              | 601.113 | 570.278 | 306.987 | 3,175.89 | 8.41135 | 5.32747 | 932.778 | 938.105 | 5.05860 | 236.684 | 241.743 | 7,431.80 | 872,161 | 879,592 | 605.548 | 42.3017 | 14,223.2 | 921,560 |
| Annual (Max)        | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |



|        |         |         |         |         |         |         |         |         |         |         |         |          |         |         |         |         |          |         |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|---------|
| Unmit. | 109.703 | 104.076 | 56.0251 | 579.600 | 1.53507 | 0.97226 | 170.232 | 171.204 | 0.92319 | 43.1949 | 44.1181 | 1,230.42 | 144,396 | 145,627 | 100.255 | 7.00353 | 2,354.82 | 152,575 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|---------|

## 2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector              | TOG     | ROG     | NOx     | CO       | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2    | CO2T     | CH4     | N2O     | R        | CO2e     |
|---------------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---------|----------|----------|
| Daily, Summer (Max) | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | —        | —        |
| Mobile              | 472.461 | 445.407 | 257.435 | 3,526.87 | 8.89280 | 3.19413 | 956.856 | 960.050 | 2.99065 | 242.704 | 245.694 | —        | 906,804  | 906,804  | 29.2789 | 36.6719 | 101.982  | 918,566  |
| Area                | 167.762 | 164.681 | 2.15582 | 252.267  | 0.01434 | 0.39091 | —       | 0.39091 | 0.29553 | —       | 0.29553 | 0.00000  | 975.012  | 975.012  | 0.04089 | 0.00833 | —        | 978.518  |
| Energy              | 2.69809 | 1.34904 | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | —        | 29,347.3 |
| Water               | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 0.00000  | 1,772.86 | 6.09137 | 3.87302 | —        | 3,079.31 |
| Waste               | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000  | 5,658.94 | 565.590 | 0.00000 | —        | 19,798.7 |
| Refrig.             | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | 14,179.2 | 14,179.2 |
| Total               | 642.922 | 611.438 | 283.961 | 3,798.58 | 9.05431 | 5.44917 | 956.856 | 962.305 | 5.15031 | 242.704 | 247.854 | 7,431.80 | 937,045  | 944,477  | 603.592 | 40.6084 | 14,281.2 | 985,949  |
| Daily, Winter (Max) | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | —        | —        |
| Mobile              | 443.774 | 415.809 | 304.395 | 3,029.32 | 8.08803 | 3.19762 | 956.856 | 960.053 | 2.99399 | 242.704 | 245.698 | —        | 825,407  | 825,407  | 33.5263 | 40.2745 | 2.64473  | 838,249  |
| Area                | 126.563 | 126.563 | 0.00000 | 0.00000  | 0.00000 | 0.00000 | —       | 0.00000 | 0.00000 | —       | 0.00000 | 0.00000  | 0.00000  | 0.00000  | 0.00000 | 0.00000 | —        | 0.00000  |
| Energy              | 2.69809 | 1.34904 | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | —        | 29,347.3 |
| Water               | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 0.00000  | 1,772.86 | 6.09137 | 3.87302 | —        | 3,079.31 |
| Waste               | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000  | 5,658.94 | 565.590 | 0.00000 | —        | 19,798.7 |
| Refrig.             | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | 14,179.2 | 14,179.2 |
| Total               | 573.035 | 543.720 | 328.766 | 3,048.77 | 8.23519 | 5.06176 | 956.856 | 961.917 | 4.85812 | 242.704 | 247.562 | 7,431.80 | 854,673  | 862,105  | 607.798 | 44.2026 | 14,181.8 | 904,654  |
| Average Daily       | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | —        | —        |
| Mobile              | 443.633 | 416.257 | 281.140 | 2,983.66 | 8.25436 | 3.19560 | 932.778 | 935.973 | 2.99205 | 236.684 | 239.676 | —        | 842,227  | 842,227  | 31.2481 | 38.3679 | 44.0353  | 854,485  |
| Area                | 154.782 | 152.671 | 1.47659 | 172.786  | 0.00982 | 0.26774 | —       | 0.26774 | 0.20242 | —       | 0.20242 | 0.00000  | 667.817  | 667.817  | 0.02800 | 0.00571 | —        | 670.218  |
| Energy              | 2.69809 | 1.34904 | 24.3702 | 19.4459  | 0.14717 | 1.86413 | —       | 1.86413 | 1.86413 | —       | 1.86413 | —        | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | —        | 29,347.3 |

|         |         |         |         |          |         |         |         |         |         |         |         |          |          |          |         |         |          |          |
|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---------|----------|----------|
| Water   | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 1,772.86 | 0.00000  | 1,772.86 | 6.09137 | 3.87302 | —        | 3,079.31 |
| Waste   | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 5,658.94 | 0.00000  | 5,658.94 | 565.590 | 0.00000 | —        | 19,798.7 |
| Refrig. | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | 14,179.2 | 14,179.2 |
| Total   | 601.113 | 570.278 | 306.987 | 3,175.89 | 8.41135 | 5.32747 | 932.778 | 938.105 | 5.05860 | 236.684 | 241.743 | 7,431.80 | 872,161  | 879,592  | 605.548 | 42.3017 | 14,223.2 | 921,560  |
| Annual  | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | —        | —        |
| Mobile  | 80.9630 | 75.9670 | 51.3080 | 544.518  | 1.50642 | 0.58320 | 170.232 | 170.815 | 0.54605 | 43.1949 | 43.7409 | —        | 139,440  | 139,440  | 5.17348 | 6.35224 | 7.29055  | 141,470  |
| Area    | 28.2477 | 27.8625 | 0.26948 | 31.5334  | 0.00179 | 0.04886 | —       | 0.04886 | 0.03694 | —       | 0.03694 | 0.00000  | 110.565  | 110.565  | 0.00464 | 0.00094 | —        | 110.962  |
| Energy  | 0.49240 | 0.24620 | 4.44756 | 3.54888  | 0.02686 | 0.34020 | —       | 0.34020 | 0.34020 | —       | 0.34020 | —        | 4,845.34 | 4,845.34 | 0.42881 | 0.00912 | —        | 4,858.77 |
| Water   | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 293.518  | 0.00000  | 293.518  | 1.00850 | 0.64122 | —        | 509.814  |
| Waste   | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | 936.902  | 0.00000  | 936.902  | 93.6399 | 0.00000 | —        | 3,277.90 |
| Refrig. | —       | —       | —       | —        | —       | —       | —       | —       | —       | —       | —       | —        | —        | —        | —       | —       | 2,347.52 | 2,347.52 |
| Total   | 109.703 | 104.076 | 56.0251 | 579.600  | 1.53507 | 0.97226 | 170.232 | 171.204 | 0.92319 | 43.1949 | 44.1181 | 1,230.42 | 144,396  | 145,627  | 100.255 | 7.00353 | 2,354.82 | 152,575  |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Bank<br>(with<br>Drive-Through)                     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Govern<br>ment<br>Office<br>Building                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Medical<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking<br>Lot                                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise               | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Regional Shopping                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | —       | —       | — | —       |
| Bank (with Drive-Through)        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Medical Office Building          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of Worship                 | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Heavy Industry           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Annual                            | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | —       | —       | — | —       |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Medical Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of Worship                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |



|                                   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Auto Care Center                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                  | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|---------------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max)       | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —       | —       | —       | —       | — | —       |
| Bank (with Drive-Through) | 0.03093 | 0.01546 | 0.28115 | 0.23617 | 0.00169 | 0.02137 | —     | 0.02137 | 0.02137 | —      | 0.02137 | —    | 335.465 | 335.465 | 0.02969 | 0.00063 | — | 336.395 |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| General Office Building              | 0.62492 | 0.31246 | 5.68107 | 4.77210 | 0.03409 | 0.43176 | — | 0.43176 | 0.43176 | — | 0.43176 | — | 6,778.46 | 6,778.46 | 0.59989 | 0.01276 | — | 6,797.26 |
| Government Office Building           | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Medical Office Building              | 0.01124 | 0.00562 | 0.10214 | 0.08580 | 0.00061 | 0.00776 | — | 0.00776 | 0.00776 | — | 0.00776 | — | 121.871  | 121.871  | 0.01079 | 0.00023 | — | 122.209  |
| Library                              | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of Worship                     | 0.20152 | 0.10076 | 1.83196 | 1.53885 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.84 | 2,185.84 | 0.19345 | 0.00412 | — | 2,191.90 |
| General Heavy Industry               | 0.07656 | 0.03828 | 0.69604 | 0.58467 | 0.00418 | 0.05290 | — | 0.05290 | 0.05290 | — | 0.05290 | — | 830.493  | 830.493  | 0.07350 | 0.00156 | — | 832.797  |
| Unrefrigerated Warehouse-No Rail     | 0.20366 | 0.10183 | 1.85145 | 1.55522 | 0.01111 | 0.14071 | — | 0.14071 | 0.14071 | — | 0.14071 | — | 2,209.09 | 2,209.09 | 0.19550 | 0.00416 | — | 2,215.22 |
| Parking Lot                          | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | 0.14580 | 0.07290 | 1.32550 | 1.11342 | 0.00795 | 0.10074 | — | 0.10074 | 0.10074 | — | 0.10074 | — | 1,581.54 | 1,581.54 | 0.13997 | 0.00298 | — | 1,585.93 |
| Health Club                          | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |
| Motel                                | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |
| Quality Restaurant                   | 0.15223 | 0.07611 | 1.38388 | 1.16246 | 0.00830 | 0.10517 | — | 0.10517 | 0.10517 | — | 0.10517 | — | 1,651.19 | 1,651.19 | 0.14613 | 0.00311 | — | 1,655.77 |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| User Defined Recreational         | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise               | 0.27922 | 0.13961 | 2.38602 | 1.01533 | 0.01523 | 0.19291 | — | 0.19291 | 0.19291 | — | 0.19291 | — | 3,028.64 | 3,028.64 | 0.26803 | 0.00570 | — | 3,037.04 |
| Condo/Townhouse                   | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing             | 0.00813 | 0.00407 | 0.06951 | 0.02958 | 0.00044 | 0.00562 | — | 0.00562 | 0.00562 | — | 0.00562 | — | 88.2354  | 88.2354  | 0.00781 | 0.00017 | — | 88.4801  |
| Supermarket                       | 0.03883 | 0.01942 | 0.35302 | 0.29654 | 0.00212 | 0.02683 | — | 0.02683 | 0.02683 | — | 0.02683 | — | 421.212  | 421.212  | 0.03728 | 0.00079 | — | 422.380  |
| Automobile Care Center            | 0.31107 | 0.15553 | 2.82787 | 2.37541 | 0.01697 | 0.21492 | — | 0.21492 | 0.21492 | — | 0.21492 | — | 3,374.13 | 3,374.13 | 0.29861 | 0.00635 | — | 3,383.48 |
| Convenience Market (24 hour)      | 0.00128 | 0.00064 | 0.01167 | 0.00980 | 0.00007 | 0.00089 | — | 0.00089 | 0.00089 | — | 0.00089 | — | 13.9269  | 13.9269  | 0.00123 | 0.00003 | — | 13.9655  |
| Free-Standing Discount store      | 0.00346 | 0.00173 | 0.03145 | 0.02642 | 0.00019 | 0.00239 | — | 0.00239 | 0.00239 | — | 0.00239 | — | 37.5275  | 37.5275  | 0.00332 | 0.00007 | — | 37.6316  |
| Free-Standing Discount Superstore | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore       | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |
| Regional Shopping Center          | 0.02999 | 0.01500 | 0.27265 | 0.22903 | 0.00164 | 0.02072 | — | 0.02072 | 0.02072 | — | 0.02072 | — | 325.320  | 325.320  | 0.02879 | 0.00061 | — | 326.223  |

|                                  |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Strip Mall                       | 0.16342 | 0.08171 | 1.48561 | 1.24791 | 0.00891 | 0.11291 | — | 0.11291 | 0.11291 | — | 0.11291 | — | 1,772.58 | 1,772.58 | 0.15687 | 0.00334 | — | 1,777.49 |
| Total                            | 2.69809 | 1.34904 | 24.3702 | 19.4459 | 0.14717 | 1.86413 | — | 1.86413 | 1.86413 | — | 1.86413 | — | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | — | 29,347.3 |
| Daily, Winter (Max)              | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)        | 0.03093 | 0.01546 | 0.28115 | 0.23617 | 0.00169 | 0.02137 | — | 0.02137 | 0.02137 | — | 0.02137 | — | 335.465  | 335.465  | 0.02969 | 0.00063 | — | 336.395  |
| General Office Building          | 0.62492 | 0.31246 | 5.68107 | 4.77210 | 0.03409 | 0.43176 | — | 0.43176 | 0.43176 | — | 0.43176 | — | 6,778.46 | 6,778.46 | 0.59989 | 0.01276 | — | 6,797.26 |
| Government Office Building       | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Medical Office Building          | 0.01124 | 0.00562 | 0.10214 | 0.08580 | 0.00061 | 0.00776 | — | 0.00776 | 0.00776 | — | 0.00776 | — | 121.871  | 121.871  | 0.01079 | 0.00023 | — | 122.209  |
| Library                          | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of Worship                 | 0.20152 | 0.10076 | 1.83196 | 1.53885 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.84 | 2,185.84 | 0.19345 | 0.00412 | — | 2,191.90 |
| General Heavy Industry           | 0.07656 | 0.03828 | 0.69604 | 0.58467 | 0.00418 | 0.05290 | — | 0.05290 | 0.05290 | — | 0.05290 | — | 830.493  | 830.493  | 0.07350 | 0.00156 | — | 832.797  |
| Unrefrigerated Warehouse-No Rail | 0.20366 | 0.10183 | 1.85145 | 1.55522 | 0.01111 | 0.14071 | — | 0.14071 | 0.14071 | — | 0.14071 | — | 2,209.09 | 2,209.09 | 0.19550 | 0.00416 | — | 2,215.22 |
| Parking Lot                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | 0.14580 | 0.07290 | 1.32550 | 1.11342 | 0.00795 | 0.10074 | — | 0.10074 | 0.10074 | — | 0.10074 | — | 1,581.54 | 1,581.54 | 0.13997 | 0.00298 | — | 1,585.93 |
| Health Club                          | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |
| Motel                                | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |
| Quality Restaurant                   | 0.15223 | 0.07611 | 1.38388 | 1.16246 | 0.00830 | 0.10517 | — | 0.10517 | 0.10517 | — | 0.10517 | — | 1,651.19 | 1,651.19 | 0.14613 | 0.00311 | — | 1,655.77 |
| User Defined Recreational            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | 0.27922 | 0.13961 | 2.38602 | 1.01533 | 0.01523 | 0.19291 | — | 0.19291 | 0.19291 | — | 0.19291 | — | 3,028.64 | 3,028.64 | 0.26803 | 0.00570 | — | 3,037.04 |
| Condo/Townhouse                      | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing                | 0.00813 | 0.00407 | 0.06951 | 0.02958 | 0.00044 | 0.00562 | — | 0.00562 | 0.00562 | — | 0.00562 | — | 88.2354  | 88.2354  | 0.00781 | 0.00017 | — | 88.4801  |
| Supermarket                          | 0.03883 | 0.01942 | 0.35302 | 0.29654 | 0.00212 | 0.02683 | — | 0.02683 | 0.02683 | — | 0.02683 | — | 421.212  | 421.212  | 0.03728 | 0.00079 | — | 422.380  |
| Automobile Care Center               | 0.31107 | 0.15553 | 2.82787 | 2.37541 | 0.01697 | 0.21492 | — | 0.21492 | 0.21492 | — | 0.21492 | — | 3,374.13 | 3,374.13 | 0.29861 | 0.00635 | — | 3,383.48 |
| Convenience Market (24 hour)         | 0.00128 | 0.00064 | 0.01167 | 0.00980 | 0.00007 | 0.00089 | — | 0.00089 | 0.00089 | — | 0.00089 | — | 13.9269  | 13.9269  | 0.00123 | 0.00003 | — | 13.9655  |
| Free-Standing Discount store         | 0.00346 | 0.00173 | 0.03145 | 0.02642 | 0.00019 | 0.00239 | — | 0.00239 | 0.00239 | — | 0.00239 | — | 37.5275  | 37.5275  | 0.00332 | 0.00007 | — | 37.6316  |

|                             |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Free-Standing               | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |
| Regional Shopping Center    | 0.02999 | 0.01500 | 0.27265 | 0.22903 | 0.00164 | 0.02072 | — | 0.02072 | 0.02072 | — | 0.02072 | — | 325.320  | 325.320  | 0.02879 | 0.00061 | — | 326.223  |
| Strip Mall                  | 0.16342 | 0.08171 | 1.48561 | 1.24791 | 0.00891 | 0.11291 | — | 0.11291 | 0.11291 | — | 0.11291 | — | 1,772.58 | 1,772.58 | 0.15687 | 0.00334 | — | 1,777.49 |
| Total                       | 2.69809 | 1.34904 | 24.3702 | 19.4459 | 0.14717 | 1.86413 | — | 1.86413 | 1.86413 | — | 1.86413 | — | 29,266.1 | 29,266.1 | 2.59004 | 0.05511 | — | 29,347.3 |
| Annual                      | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Bank (with Drive-Through)   | 0.00564 | 0.00282 | 0.05131 | 0.04310 | 0.00031 | 0.00390 | — | 0.00390 | 0.00390 | — | 0.00390 | — | 55.5400  | 55.5400  | 0.00492 | 0.00010 | — | 55.6940  |
| General Office Building     | 0.11405 | 0.05702 | 1.03679 | 0.87091 | 0.00622 | 0.07880 | — | 0.07880 | 0.07880 | — | 0.07880 | — | 1,122.25 | 1,122.25 | 0.09932 | 0.00211 | — | 1,125.36 |
| Government Office Building  | 0.03489 | 0.01745 | 0.31720 | 0.26645 | 0.00190 | 0.02411 | — | 0.02411 | 0.02411 | — | 0.02411 | — | 343.344  | 343.344  | 0.03039 | 0.00065 | — | 344.297  |
| Medical Office Building     | 0.00205 | 0.00103 | 0.01864 | 0.01566 | 0.00011 | 0.00142 | — | 0.00142 | 0.00142 | — | 0.00142 | — | 20.1772  | 20.1772  | 0.00179 | 0.00004 | — | 20.2332  |
| Library                     | 0.00800 | 0.00400 | 0.07269 | 0.06106 | 0.00044 | 0.00552 | — | 0.00552 | 0.00552 | — | 0.00552 | — | 78.6864  | 78.6864  | 0.00696 | 0.00015 | — | 78.9046  |
| Place of Worship            | 0.03678 | 0.01839 | 0.33433 | 0.28084 | 0.00201 | 0.02541 | — | 0.02541 | 0.02541 | — | 0.02541 | — | 361.890  | 361.890  | 0.03203 | 0.00068 | — | 362.894  |
| General Heavy Industry      | 0.01397 | 0.00699 | 0.12703 | 0.10670 | 0.00076 | 0.00965 | — | 0.00965 | 0.00965 | — | 0.00965 | — | 137.498  | 137.498  | 0.01217 | 0.00026 | — | 137.879  |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |         |         |         |         |   |         |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|---------|---------|---------|---------|---|---------|
| Unrefrigerated Warehouse-No Rail     | 0.03717 | 0.01858 | 0.33789 | 0.28383 | 0.00203 | 0.02568 | — | 0.02568 | 0.02568 | — | 0.02568 | — | 365.740 | 365.740 | 0.03237 | 0.00069 | — | 366.754 |
| Parking Lot                          | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | 0.02661 | 0.01330 | 0.24190 | 0.20320 | 0.00145 | 0.01838 | — | 0.01838 | 0.01838 | — | 0.01838 | — | 261.842 | 261.842 | 0.02317 | 0.00049 | — | 262.568 |
| Health Club                          | 0.01288 | 0.00644 | 0.11705 | 0.09832 | 0.00070 | 0.00890 | — | 0.00890 | 0.00890 | — | 0.00890 | — | 126.693 | 126.693 | 0.01121 | 0.00024 | — | 127.045 |
| Motel                                | 0.00406 | 0.00203 | 0.03695 | 0.03104 | 0.00022 | 0.00281 | — | 0.00281 | 0.00281 | — | 0.00281 | — | 39.9947 | 39.9947 | 0.00354 | 0.00008 | — | 40.1057 |
| Quality Restaurant                   | 0.02778 | 0.01389 | 0.25256 | 0.21215 | 0.00152 | 0.01919 | — | 0.01919 | 0.01919 | — | 0.01919 | — | 273.374 | 273.374 | 0.02419 | 0.00051 | — | 274.132 |
| User Defined Recreational            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | 0.05096 | 0.02548 | 0.43545 | 0.18530 | 0.00278 | 0.03521 | — | 0.03521 | 0.03521 | — | 0.03521 | — | 501.426 | 501.426 | 0.04438 | 0.00094 | — | 502.817 |
| Condo/Townhouse                      | 0.00038 | 0.00019 | 0.00323 | 0.00137 | 0.00002 | 0.00026 | — | 0.00026 | 0.00026 | — | 0.00026 | — | 3.71640 | 3.71640 | 0.00033 | 0.00001 | — | 3.72671 |
| Single Family Housing                | 0.00148 | 0.00074 | 0.01269 | 0.00540 | 0.00008 | 0.00103 | — | 0.00103 | 0.00103 | — | 0.00103 | — | 14.6084 | 14.6084 | 0.00129 | 0.00003 | — | 14.6489 |
| Supermarket                          | 0.00709 | 0.00354 | 0.06443 | 0.05412 | 0.00039 | 0.00490 | — | 0.00490 | 0.00490 | — | 0.00490 | — | 69.7364 | 69.7364 | 0.00617 | 0.00013 | — | 69.9298 |
| Automobile Care Center               | 0.05677 | 0.02838 | 0.51609 | 0.43351 | 0.00310 | 0.03922 | — | 0.03922 | 0.03922 | — | 0.03922 | — | 558.625 | 558.625 | 0.04944 | 0.00105 | — | 560.174 |

|                                             |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |               |   |          |
|---------------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------------|---|----------|
| Conveni<br>Market<br>(24 hour)              | 0.00023 | 0.00012 | 0.00213 | 0.00179 | 0.00001 | 0.00016 | — | 0.00016 | 0.00016 | — | 0.00016 | — | 2.30576  | 2.30576  | 0.00020 | <<br>0.000005 | — | 2.31215  |
| Free-Sta<br>nding<br>Discount<br>store      | 0.00063 | 0.00032 | 0.00574 | 0.00482 | 0.00003 | 0.00044 | — | 0.00044 | 0.00044 | — | 0.00044 | — | 6.21311  | 6.21311  | 0.00055 | 0.00001       | — | 6.23034  |
| Free-Sta<br>nding<br>Discount<br>Superstore | 0.00576 | 0.00288 | 0.05232 | 0.04395 | 0.00031 | 0.00398 | — | 0.00398 | 0.00398 | — | 0.00398 | — | 56.6333  | 56.6333  | 0.00501 | 0.00011       | — | 56.7903  |
| Home<br>Improvement<br>Superstore           | 0.00993 | 0.00496 | 0.09027 | 0.07583 | 0.00054 | 0.00686 | — | 0.00686 | 0.00686 | — | 0.00686 | — | 97.7088  | 97.7088  | 0.00865 | 0.00018       | — | 97.9798  |
| Regiona<br>l<br>Shoppin<br>g<br>Center      | 0.00547 | 0.00274 | 0.04976 | 0.04180 | 0.00030 | 0.00378 | — | 0.00378 | 0.00378 | — | 0.00378 | — | 53.8605  | 53.8605  | 0.00477 | 0.00010       | — | 54.0099  |
| Strip<br>Mall                               | 0.02982 | 0.01491 | 0.27112 | 0.22774 | 0.00163 | 0.02061 | — | 0.02061 | 0.02061 | — | 0.02061 | — | 293.470  | 293.470  | 0.02597 | 0.00055       | — | 294.284  |
| Total                                       | 0.49240 | 0.24620 | 4.44756 | 3.54888 | 0.02686 | 0.34020 | — | 0.34020 | 0.34020 | — | 0.34020 | — | 4,845.34 | 4,845.34 | 0.42881 | 0.00912       | — | 4,858.77 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source                       | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|------------------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---|---------|
| Daily,<br>Summer<br>(Max)    | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —     | 0.00000 | 0.00000 | —      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consum<br>er<br>Product<br>s | 115.831 | 115.831 | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |



|                        |         |         |         |         |         |         |   |         |         |   |         |         |         |         |         |         |   |         |
|------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---------|---------|---------|---------|---------|---|---------|
| Architect Coatings     | 10.7317 | 10.7317 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Landscape Equipment    | 41.1996 | 38.1187 | 2.15582 | 252.267 | 0.01434 | 0.39091 | — | 0.39091 | 0.29553 | — | 0.29553 | —       | 975.012 | 975.012 | 0.04089 | 0.00833 | — | 978.518 |
| Total                  | 167.762 | 164.681 | 2.15582 | 252.267 | 0.01434 | 0.39091 | — | 0.39091 | 0.29553 | — | 0.29553 | 0.00000 | 975.012 | 975.012 | 0.04089 | 0.00833 | — | 978.518 |
| Daily, Winter (Max)    | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consumer Products      | 115.831 | 115.831 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Architectural Coatings | 10.7317 | 10.7317 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Total                  | 126.563 | 126.563 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Annual                 | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consumer Products      | 21.1392 | 21.1392 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Architectural Coatings | 1.95853 | 1.95853 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —       | —       | —       | —       | — | —       |
| Landscape Equipment    | 5.14995 | 4.76484 | 0.26948 | 31.5334 | 0.00179 | 0.04886 | — | 0.04886 | 0.03694 | — | 0.03694 | —       | 110.565 | 110.565 | 0.00464 | 0.00094 | — | 110.962 |
| Total                  | 28.2477 | 27.8625 | 0.26948 | 31.5334 | 0.00179 | 0.04886 | — | 0.04886 | 0.03694 | — | 0.03694 | 0.00000 | 110.565 | 110.565 | 0.00464 | 0.00094 | — | 110.962 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2     | NBCO2   | CO2T     | CH4     | N2O     | R | CO2e     |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|----------|---------|----------|---------|---------|---|----------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —        | —       | —        | —       | —       | — | —        |
| Bank (with Drive-Through)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.24131  | 0.00000 | 2.24131  | 0.00770 | 0.00490 | — | 3.89296  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 241.460  | 0.00000 | 241.460  | 0.82963 | 0.52750 | — | 419.394  |
| Government Office Building       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 82.5717  | 0.00000 | 82.5717  | 0.28371 | 0.18039 | — | 143.420  |
| Medical Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 3.06496  | 0.00000 | 3.06496  | 0.01053 | 0.00670 | — | 5.32356  |
| Library                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.50740  | 0.00000 | 2.50740  | 0.00862 | 0.00548 | — | 4.35513  |
| Place of Worship                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 11.5320  | 0.00000 | 11.5320  | 0.03962 | 0.02519 | — | 20.0301  |
| General Heavy Industry           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 32.2352  | 0.00000 | 32.2352  | 0.11076 | 0.07042 | — | 55.9898  |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1,031.94 | 0.00000 | 1,031.94 | 3.54563 | 2.25439 | — | 1,792.39 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 26.6010 | 0.00000 | 26.6010 | 0.09140 | 0.05811 | — | 46.2037 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 7.63131 | 0.00000 | 7.63131 | 0.02622 | 0.01667 | — | 13.2549 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.41513 | 0.00000 | 3.41513 | 0.01173 | 0.00746 | — | 5.93179 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 27.7686 | 0.00000 | 27.7686 | 0.09541 | 0.06066 | — | 48.2316 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 55.9082 | 0.00000 | 55.9082 | 0.19209 | 0.12214 | — | 97.1077 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 0.30139 | 0.00000 | 0.30139 | 0.00104 | 0.00066 | — | 0.52349 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.52744 | 0.00000 | 0.52744 | 0.00181 | 0.00115 | — | 0.91611 |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 17.2094 | 0.00000 | 17.2094 | 0.05913 | 0.03760 | — | 29.8912 |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | 53.5256 | 0.00000 | 53.5256 | 0.18391 | 0.11693 | — | 92.9692 |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | 0.34191 | 0.00000 | 0.34191 | 0.00117 | 0.00075 | — | 0.59387 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 2.10528  | 0.00000 | 2.10528  | 0.00723 | 0.00460 | — | 3.65669  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 0.00000 | 19.1882  | 0.06593 | 0.04192 | — | 33.3281  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 0.00000 | 33.1052  | 0.11375 | 0.07232 | — | 57.5008  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 18.2495  | 0.00000 | 18.2495  | 0.06270 | 0.03987 | — | 31.6978  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 99.4343  | 0.00000 | 99.4343  | 0.34165 | 0.21723 | — | 172.709  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 1,772.86 | 0.00000 | 1,772.86 | 6.09137 | 3.87302 | — | 3,079.31 |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | 2.24131  | 0.00000 | 2.24131  | 0.00770 | 0.00490 | — | 3.89296  |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | 241.460  | 0.00000 | 241.460  | 0.82963 | 0.52750 | — | 419.394  |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | 82.5717  | 0.00000 | 82.5717  | 0.28371 | 0.18039 | — | 143.420  |
| Medical Office Building           | — | — | — | — | — | — | — | — | — | — | — | 3.06496  | 0.00000 | 3.06496  | 0.01053 | 0.00670 | — | 5.32356  |
| Library                           | — | — | — | — | — | — | — | — | — | — | — | 2.50740  | 0.00000 | 2.50740  | 0.00862 | 0.00548 | — | 4.35513  |
| Place of Worship                  | — | — | — | — | — | — | — | — | — | — | — | 11.5320  | 0.00000 | 11.5320  | 0.03962 | 0.02519 | — | 20.0301  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 32.2352  | 0.00000 | 32.2352  | 0.11076 | 0.07042 | — | 55.9898  |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 1,031.94 | 0.00000 | 1,031.94 | 3.54563 | 2.25439 | — | 1,792.39 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 26.6010  | 0.00000 | 26.6010  | 0.09140 | 0.05811 | — | 46.2037  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 7.63131  | 0.00000 | 7.63131  | 0.02622 | 0.01667 | — | 13.2549  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.41513  | 0.00000 | 3.41513  | 0.01173 | 0.00746 | — | 5.93179  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 27.7686  | 0.00000 | 27.7686  | 0.09541 | 0.06066 | — | 48.2316  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 55.9082  | 0.00000 | 55.9082  | 0.19209 | 0.12214 | — | 97.1077  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 0.30139  | 0.00000 | 0.30139  | 0.00104 | 0.00066 | — | 0.52349  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.52744  | 0.00000 | 0.52744  | 0.00181 | 0.00115 | — | 0.91611  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 17.2094  | 0.00000 | 17.2094  | 0.05913 | 0.03760 | — | 29.8912  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Auto Care Center                  | — | — | — | — | — | — | — | — | — | — | — | 53.5256  | 0.00000 | 53.5256  | 0.18391 | 0.11693 | — | 92.9692  |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.34191  | 0.00000 | 0.34191  | 0.00117 | 0.00075 | — | 0.59387  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 2.10528  | 0.00000 | 2.10528  | 0.00723 | 0.00460 | — | 3.65669  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 0.00000 | 19.1882  | 0.06593 | 0.04192 | — | 33.3281  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 0.00000 | 33.1052  | 0.11375 | 0.07232 | — | 57.5008  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 18.2495  | 0.00000 | 18.2495  | 0.06270 | 0.03987 | — | 31.6978  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 99.4343  | 0.00000 | 99.4343  | 0.34165 | 0.21723 | — | 172.709  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 1,772.86 | 0.00000 | 1,772.86 | 6.09137 | 3.87302 | — | 3,079.31 |
| Annual                            | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Bank (with Drive-Through)         | — | — | — | — | — | — | — | — | — | — | — | 0.37107  | 0.00000 | 0.37107  | 0.00127 | 0.00081 | — | 0.64452  |
| General Office Building           | — | — | — | — | — | — | — | — | — | — | — | 39.9764  | 0.00000 | 39.9764  | 0.13735 | 0.08733 | — | 69.4355  |
| Government Office Building        | — | — | — | — | — | — | — | — | — | — | — | 13.6707  | 0.00000 | 13.6707  | 0.04697 | 0.02987 | — | 23.7448  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Medical Office Building              | — | — | — | — | — | — | — | — | — | — | — | 0.50744 | 0.00000 | 0.50744 | 0.00174 | 0.00111 | — | 0.88138 |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | 0.41513 | 0.00000 | 0.41513 | 0.00143 | 0.00091 | — | 0.72104 |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | 1.90926 | 0.00000 | 1.90926 | 0.00656 | 0.00417 | — | 3.31622 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 5.33691 | 0.00000 | 5.33691 | 0.01834 | 0.01166 | — | 9.26975 |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 170.849 | 0.00000 | 170.849 | 0.58702 | 0.37324 | — | 296.750 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 4.40410 | 0.00000 | 4.40410 | 0.01513 | 0.00962 | — | 7.64954 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 1.26345 | 0.00000 | 1.26345 | 0.00434 | 0.00276 | — | 2.19450 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 0.56541 | 0.00000 | 0.56541 | 0.00194 | 0.00124 | — | 0.98207 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 4.59741 | 0.00000 | 4.59741 | 0.01580 | 0.01004 | — | 7.98530 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 9.25624 | 0.00000 | 9.25624 | 0.03180 | 0.02022 | — | 16.0773 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.04990 | 0.00000 | 0.04990 | 0.00017 | 0.00011 | — | 0.08667 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.08732 | 0.00000 | 0.08732 | 0.00030 | 0.00019 | — | 0.15167 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 2.84921 | 0.00000 | 2.84921 | 0.00979 | 0.00622 | — | 4.94883 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | 8.86177 | 0.00000 | 8.86177 | 0.03045 | 0.01936 | — | 15.3921 |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.05661 | 0.00000 | 0.05661 | 0.00019 | 0.00012 | — | 0.09832 |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | 0.34855 | 0.00000 | 0.34855 | 0.00120 | 0.00076 | — | 0.60541 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 3.17682 | 0.00000 | 3.17682 | 0.01092 | 0.00694 | — | 5.51786 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 5.48094 | 0.00000 | 5.48094 | 0.01883 | 0.01197 | — | 9.51992 |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | 3.02141 | 0.00000 | 3.02141 | 0.01038 | 0.00660 | — | 5.24793 |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 16.4625 | 0.00000 | 16.4625 | 0.05656 | 0.03596 | — | 28.5939 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 293.518 | 0.00000 | 293.518 | 1.00850 | 0.64122 | — | 509.814 |

#### 4.5. Waste Emissions by Land Use



## 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2     | NBCO2   | CO2T     | CH4     | N2O     | R | CO2e     |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|----------|---------|----------|---------|---------|---|----------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —        | —       | —        | —       | —       | — | —        |
| Bank (with Drive-Through)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 13.3099  | 0.00000 | 13.3099  | 1.33028 | 0.00000 | — | 46.5668  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 318.636  | 0.00000 | 318.636  | 31.8465 | 0.00000 | — | 1,114.80 |
| Government Office Building       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 97.4859  | 0.00000 | 97.4859  | 9.74337 | 0.00000 | — | 341.070  |
| Medical Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 66.5288  | 0.00000 | 66.5288  | 6.64931 | 0.00000 | — | 232.762  |
| Library                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 18.6119  | 0.00000 | 18.6119  | 1.86019 | 0.00000 | — | 65.1166  |
| Place of Worship                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 529.819  | 0.00000 | 529.819  | 52.9535 | 0.00000 | — | 1,853.66 |
| General Heavy Industry           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 43.5922  | 0.00000 | 43.5922  | 4.35688 | 0.00000 | — | 152.514  |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1,057.88 | 0.00000 | 1,057.88 | 105.732 | 0.00000 | — | 3,701.17 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 254.590 | 0.00000 | 254.590 | 25.4453 | 0.00000 | — | 890.723  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 185.484 | 0.00000 | 185.484 | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 18.5893 | 0.00000 | 18.5893 | 1.85794 | 0.00000 | — | 65.0378  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 21.0532 | 0.00000 | 21.0532 | 2.10419 | 0.00000 | — | 73.6579  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 295.764 | 0.00000 | 295.764 | 29.5605 | 0.00000 | — | 1,034.78 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 1.56564 | 0.00000 | 1.56564 | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 2.53492 | 0.00000 | 2.53492 | 0.25336 | 0.00000 | — | 8.86882  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 198.578 | 0.00000 | 198.578 | 19.8472 | 0.00000 | — | 694.757  |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | 548.100 | 0.00000 | 548.100 | 54.7806 | 0.00000 | — | 1,917.62 |
| Convenience Market (24 hour)         | — | — | — | — | — | — | — | — | — | — | — | 3.49843 | 0.00000 | 3.49843 | 0.34966 | 0.00000 | — | 12.2398  |
| Free-Standing Discount store         | — | — | — | — | — | — | — | — | — | — | — | 30.8269 | 0.00000 | 30.8269 | 3.08104 | 0.00000 | — | 107.853  |

|                             |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Free-Standing               | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home Improvement Superstore | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Regional Shopping Center    | — | — | — | — | — | — | — | — | — | — | — | 65.2410  | 0.00000 | 65.2410  | 6.52060 | 0.00000 | — | 228.256  |
| Strip Mall                  | — | — | — | — | — | — | — | — | — | — | — | 355.472  | 0.00000 | 355.472  | 35.5282 | 0.00000 | — | 1,243.68 |
| Total                       | — | — | — | — | — | — | — | — | — | — | — | 5,658.94 | 0.00000 | 5,658.94 | 565.590 | 0.00000 | — | 19,798.7 |
| Daily, Winter (Max)         | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Bank (with Drive-Through)   | — | — | — | — | — | — | — | — | — | — | — | 13.3099  | 0.00000 | 13.3099  | 1.33028 | 0.00000 | — | 46.5668  |
| General Office Building     | — | — | — | — | — | — | — | — | — | — | — | 318.636  | 0.00000 | 318.636  | 31.8465 | 0.00000 | — | 1,114.80 |
| Government Office Building  | — | — | — | — | — | — | — | — | — | — | — | 97.4859  | 0.00000 | 97.4859  | 9.74337 | 0.00000 | — | 341.070  |
| Medical Office Building     | — | — | — | — | — | — | — | — | — | — | — | 66.5288  | 0.00000 | 66.5288  | 6.64931 | 0.00000 | — | 232.762  |
| Library                     | — | — | — | — | — | — | — | — | — | — | — | 18.6119  | 0.00000 | 18.6119  | 1.86019 | 0.00000 | — | 65.1166  |
| Place of Worship            | — | — | — | — | — | — | — | — | — | — | — | 529.819  | 0.00000 | 529.819  | 52.9535 | 0.00000 | — | 1,853.66 |
| General Heavy Industry      | — | — | — | — | — | — | — | — | — | — | — | 43.5922  | 0.00000 | 43.5922  | 4.35688 | 0.00000 | — | 152.514  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Unrefrigerated Warehouse             | — | — | — | — | — | — | — | — | — | — | — | 1,057.88 | 0.00000 | 1,057.88 | 105.732 | 0.00000 | — | 3,701.17 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 254.590  | 0.00000 | 254.590  | 25.4453 | 0.00000 | — | 890.723  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 185.484  | 0.00000 | 185.484  | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 18.5893  | 0.00000 | 18.5893  | 1.85794 | 0.00000 | — | 65.0378  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 21.0532  | 0.00000 | 21.0532  | 2.10419 | 0.00000 | — | 73.6579  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 295.764  | 0.00000 | 295.764  | 29.5605 | 0.00000 | — | 1,034.78 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 1.56564  | 0.00000 | 1.56564  | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 2.53492  | 0.00000 | 2.53492  | 0.25336 | 0.00000 | — | 8.86882  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 198.578  | 0.00000 | 198.578  | 19.8472 | 0.00000 | — | 694.757  |
| Automobile Care Center               | — | — | — | — | — | — | — | — | — | — | — | 548.100  | 0.00000 | 548.100  | 54.7806 | 0.00000 | — | 1,917.62 |

|                                             |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Conveni<br>Market<br>(24 hour)              | — | — | — | — | — | — | — | — | — | — | — | 3.49843  | 0.00000 | 3.49843  | 0.34966 | 0.00000 | — | 12.2398  |
| Free-Sta<br>nding<br>Discount<br>store      | — | — | — | — | — | — | — | — | — | — | — | 30.8269  | 0.00000 | 30.8269  | 3.08104 | 0.00000 | — | 107.853  |
| Free-Sta<br>nding<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home<br>Improvement<br>Superstore           | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Regiona<br>l<br>Shoppin<br>g<br>Center      | — | — | — | — | — | — | — | — | — | — | — | 65.2410  | 0.00000 | 65.2410  | 6.52060 | 0.00000 | — | 228.256  |
| Strip<br>Mall                               | — | — | — | — | — | — | — | — | — | — | — | 355.472  | 0.00000 | 355.472  | 35.5282 | 0.00000 | — | 1,243.68 |
| Total                                       | — | — | — | — | — | — | — | — | — | — | — | 5,658.94 | 0.00000 | 5,658.94 | 565.590 | 0.00000 | — | 19,798.7 |
| Annual                                      | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Bank<br>(with<br>Drive-Through)             | — | — | — | — | — | — | — | — | — | — | — | 2.20361  | 0.00000 | 2.20361  | 0.22024 | 0.00000 | — | 7.70967  |
| General<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | 52.7539  | 0.00000 | 52.7539  | 5.27256 | 0.00000 | — | 184.568  |
| Govern<br>ment<br>Office<br>Building        | — | — | — | — | — | — | — | — | — | — | — | 16.1399  | 0.00000 | 16.1399  | 1.61313 | 0.00000 | — | 56.4681  |
| Medical<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | 11.0146  | 0.00000 | 11.0146  | 1.10087 | 0.00000 | — | 38.5363  |
| Library                                     | — | — | — | — | — | — | — | — | — | — | — | 3.08141  | 0.00000 | 3.08141  | 0.30798 | 0.00000 | — | 10.7808  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | 87.7176 | 0.00000 | 87.7176 | 8.76706 | 0.00000 | — | 306.894 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 7.21718 | 0.00000 | 7.21718 | 0.72133 | 0.00000 | — | 25.2505 |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 175.144 | 0.00000 | 175.144 | 17.5051 | 0.00000 | — | 612.771 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.15026 | 0.00000 | 0.15026 | 0.01502 | 0.00000 | — | 0.52572 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 42.1502 | 0.00000 | 42.1502 | 4.21277 | 0.00000 | — | 147.469 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 30.7091 | 0.00000 | 30.7091 | 3.06926 | 0.00000 | — | 107.441 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.07768 | 0.00000 | 3.07768 | 0.30760 | 0.00000 | — | 10.7678 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 3.48559 | 0.00000 | 3.48559 | 0.34837 | 0.00000 | — | 12.1949 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 48.9670 | 0.00000 | 48.9670 | 4.89408 | 0.00000 | — | 171.319 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 0.25921 | 0.00000 | 0.25921 | 0.02591 | 0.00000 | — | 0.90689 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.41968 | 0.00000 | 0.41968 | 0.04195 | 0.00000 | — | 1.46833 |

|                                         |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |          |
|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|----------|
| Superm                                  | — | — | — | — | — | — | — | — | — | — | — | 32.8769 | 0.00000 | 32.8769 | 3.28592 | 0.00000 | — | 115.025  |
| Automobile<br>Care<br>Center            | — | — | — | — | — | — | — | — | — | — | — | 90.7442 | 0.00000 | 90.7442 | 9.06956 | 0.00000 | — | 317.483  |
| Convenience<br>Market<br>(24 hour)      | — | — | — | — | — | — | — | — | — | — | — | 0.57920 | 0.00000 | 0.57920 | 0.05789 | 0.00000 | — | 2.02644  |
| Free-Standing<br>Discount<br>store      | — | — | — | — | — | — | — | — | — | — | — | 5.10375 | 0.00000 | 5.10375 | 0.51010 | 0.00000 | — | 17.8563  |
| Free-Standing<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | 46.5170 | 0.00000 | 46.5170 | 4.64921 | 0.00000 | — | 162.747  |
| Home<br>Improvement<br>Superstore       | — | — | — | — | — | — | — | — | — | — | — | 206.935 | 0.00000 | 206.935 | 20.6824 | 0.00000 | — | 723.996  |
| Regional<br>Shopping<br>Center          | — | — | — | — | — | — | — | — | — | — | — | 10.8014 | 0.00000 | 10.8014 | 1.07956 | 0.00000 | — | 37.7904  |
| Strip<br>Mall                           | — | — | — | — | — | — | — | — | — | — | — | 58.8525 | 0.00000 | 58.8525 | 5.88210 | 0.00000 | — | 205.905  |
| Total                                   | — | — | — | — | — | — | — | — | — | — | — | 936.902 | 0.00000 | 936.902 | 93.6399 | 0.00000 | — | 3,277.90 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Daily, Summer (Max)                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| Bank (with Drive-Through)            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06437 | 0.06437 |
| General Office Building              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.54611 | 1.54611 |
| Government Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47302 | 0.47302 |
| Medical Office Building              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.29206 | 0.29206 |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14486 | 0.14486 |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.66622 | 0.66622 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 17.0572 | 17.0572 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 64.1028 | 64.1028 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986 | 0.28986 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590 | 25.0590 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 66.9260 | 66.9260 |



|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Apartments<br>Low Rise            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.21470  | 4.21470  |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05246  | 0.05246  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 13,543.8 | 13,543.8 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.41580  | 0.41580  |
| Convenience Market<br>(24 hour)   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 447.810  | 447.810  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06384  | 0.06384  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.55345  | 0.55345  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.91236  | 3.91236  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14,179.2 | 14,179.2 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| Bank (with Drive-Through)            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06437 | 0.06437 |
| General Office Building              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.54611 | 1.54611 |
| Government Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47302 | 0.47302 |
| Medical Office Building              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.29206 | 0.29206 |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14486 | 0.14486 |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.66622 | 0.66622 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 17.0572 | 17.0572 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 64.1028 | 64.1028 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986 | 0.28986 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590 | 25.0590 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 66.9260 | 66.9260 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Apartments<br>Low Rise            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.21470  | 4.21470  |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05246  | 0.05246  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 13,543.8 | 13,543.8 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.41580  | 0.41580  |
| Convenience Market<br>(24 hour)   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 447.810  | 447.810  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06384  | 0.06384  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.55345  | 0.55345  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.91236  | 3.91236  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14,179.2 | 14,179.2 |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Annual                                              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| Bank<br>(with<br>Drive-Through)                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01066 | 0.01066 |
| General<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.25598 | 0.25598 |
| Govern<br>ment<br>Office<br>Building                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07831 | 0.07831 |
| Medical<br>Office<br>Building                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.04835 | 0.04835 |
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02398 | 0.02398 |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.11030 | 0.11030 |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.82402 | 2.82402 |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.6130 | 10.6130 |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.04799 | 0.04799 |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.14880 | 4.14880 |
| Quality<br>Restaurant                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.0804 | 11.0804 |
| Apartme<br>nts<br>Low Rise                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.69779 | 0.69779 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00333  | 0.00333  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00869  | 0.00869  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,242.32 | 2,242.32 |
| Automobile Care Center            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.06884  | 0.06884  |
| Convenience Market (24 hour)      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 74.1400  | 74.1400  |
| Free-Standing Discount store      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01057  | 0.01057  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.12500  | 0.12500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.16623  | 0.16623  |
| Regional Shopping Center          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.09163  | 0.09163  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.64774  | 0.64774  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,347.52 | 2,347.52 |

#### 4.7. Offroad Emissions By Equipment Type

## 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.8. Stationary Emissions By Equipment Type

## 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetati<br>on            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.9. Operational Mobile Sources

## 5.9.1. Unmitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year    |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-------------|
| Total all Land Uses | 226,683       | 226,683        | 226,683      | 82,739,295 | 1,353,749   | 1,353,749    | 1,353,749  | 494,118,385 |

## 5.10. Operational Area Sources

## 5.10.1. Hearths

| Land Use                   | Hearth Type               | Unmitigated (number) | Mitigated (number) |
|----------------------------|---------------------------|----------------------|--------------------|
| Bank (with Drive-Through)  | Wood Fireplaces           | 0                    | 0                  |
| Bank (with Drive-Through)  | Gas Fireplaces            | 0                    | 0                  |
| Bank (with Drive-Through)  | Propane Fireplaces        | 0                    | 0                  |
| Bank (with Drive-Through)  | Electric Fireplaces       | 0                    | 0                  |
| Bank (with Drive-Through)  | No Fireplaces             | 0                    | 0                  |
| Bank (with Drive-Through)  | Conventional Wood Stoves  | 0                    | 0                  |
| Bank (with Drive-Through)  | Catalytic Wood Stoves     | 0                    | 0                  |
| Bank (with Drive-Through)  | Non-Catalytic Wood Stoves | 0                    | 0                  |
| Bank (with Drive-Through)  | Pellet Wood Stoves        | 0                    | 0                  |
| General Office Building    | Wood Fireplaces           | 0                    | 0                  |
| General Office Building    | Gas Fireplaces            | 0                    | 0                  |
| General Office Building    | Propane Fireplaces        | 0                    | 0                  |
| General Office Building    | Electric Fireplaces       | 0                    | 0                  |
| General Office Building    | No Fireplaces             | 0                    | 0                  |
| General Office Building    | Conventional Wood Stoves  | 0                    | 0                  |
| General Office Building    | Catalytic Wood Stoves     | 0                    | 0                  |
| General Office Building    | Non-Catalytic Wood Stoves | 0                    | 0                  |
| General Office Building    | Pellet Wood Stoves        | 0                    | 0                  |
| Government Office Building | Wood Fireplaces           | 0                    | 0                  |
| Government Office Building | Gas Fireplaces            | 0                    | 0                  |

|                            |                           |   |   |
|----------------------------|---------------------------|---|---|
| Government Office Building | Propane Fireplaces        | 0 | 0 |
| Government Office Building | Electric Fireplaces       | 0 | 0 |
| Government Office Building | No Fireplaces             | 0 | 0 |
| Government Office Building | Conventional Wood Stoves  | 0 | 0 |
| Government Office Building | Catalytic Wood Stoves     | 0 | 0 |
| Government Office Building | Non-Catalytic Wood Stoves | 0 | 0 |
| Government Office Building | Pellet Wood Stoves        | 0 | 0 |
| Medical Office Building    | Wood Fireplaces           | 0 | 0 |
| Medical Office Building    | Gas Fireplaces            | 0 | 0 |
| Medical Office Building    | Propane Fireplaces        | 0 | 0 |
| Medical Office Building    | Electric Fireplaces       | 0 | 0 |
| Medical Office Building    | No Fireplaces             | 0 | 0 |
| Medical Office Building    | Conventional Wood Stoves  | 0 | 0 |
| Medical Office Building    | Catalytic Wood Stoves     | 0 | 0 |
| Medical Office Building    | Non-Catalytic Wood Stoves | 0 | 0 |
| Medical Office Building    | Pellet Wood Stoves        | 0 | 0 |
| Library                    | Wood Fireplaces           | 0 | 0 |
| Library                    | Gas Fireplaces            | 0 | 0 |
| Library                    | Propane Fireplaces        | 0 | 0 |
| Library                    | Electric Fireplaces       | 0 | 0 |
| Library                    | No Fireplaces             | 0 | 0 |
| Library                    | Conventional Wood Stoves  | 0 | 0 |
| Library                    | Catalytic Wood Stoves     | 0 | 0 |
| Library                    | Non-Catalytic Wood Stoves | 0 | 0 |
| Library                    | Pellet Wood Stoves        | 0 | 0 |
| Place of Worship           | Wood Fireplaces           | 0 | 0 |
| Place of Worship           | Gas Fireplaces            | 0 | 0 |
| Place of Worship           | Propane Fireplaces        | 0 | 0 |

|                                  |                           |   |   |
|----------------------------------|---------------------------|---|---|
| Place of Worship                 | Electric Fireplaces       | 0 | 0 |
| Place of Worship                 | No Fireplaces             | 0 | 0 |
| Place of Worship                 | Conventional Wood Stoves  | 0 | 0 |
| Place of Worship                 | Catalytic Wood Stoves     | 0 | 0 |
| Place of Worship                 | Non-Catalytic Wood Stoves | 0 | 0 |
| Place of Worship                 | Pellet Wood Stoves        | 0 | 0 |
| General Heavy Industry           | Wood Fireplaces           | 0 | 0 |
| General Heavy Industry           | Gas Fireplaces            | 0 | 0 |
| General Heavy Industry           | Propane Fireplaces        | 0 | 0 |
| General Heavy Industry           | Electric Fireplaces       | 0 | 0 |
| General Heavy Industry           | No Fireplaces             | 0 | 0 |
| General Heavy Industry           | Conventional Wood Stoves  | 0 | 0 |
| General Heavy Industry           | Catalytic Wood Stoves     | 0 | 0 |
| General Heavy Industry           | Non-Catalytic Wood Stoves | 0 | 0 |
| General Heavy Industry           | Pellet Wood Stoves        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Wood Fireplaces           | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Gas Fireplaces            | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Propane Fireplaces        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Electric Fireplaces       | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | No Fireplaces             | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Conventional Wood Stoves  | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Catalytic Wood Stoves     | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Non-Catalytic Wood Stoves | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Pellet Wood Stoves        | 0 | 0 |
| Parking Lot                      | Wood Fireplaces           | 0 | 0 |
| Parking Lot                      | Gas Fireplaces            | 0 | 0 |
| Parking Lot                      | Propane Fireplaces        | 0 | 0 |
| Parking Lot                      | Electric Fireplaces       | 0 | 0 |

|                                      |                           |   |   |
|--------------------------------------|---------------------------|---|---|
| Parking Lot                          | No Fireplaces             | 0 | 0 |
| Parking Lot                          | Conventional Wood Stoves  | 0 | 0 |
| Parking Lot                          | Catalytic Wood Stoves     | 0 | 0 |
| Parking Lot                          | Non-Catalytic Wood Stoves | 0 | 0 |
| Parking Lot                          | Pellet Wood Stoves        | 0 | 0 |
| City Park                            | Wood Fireplaces           | 0 | 0 |
| City Park                            | Gas Fireplaces            | 0 | 0 |
| City Park                            | Propane Fireplaces        | 0 | 0 |
| City Park                            | Electric Fireplaces       | 0 | 0 |
| City Park                            | No Fireplaces             | 0 | 0 |
| City Park                            | Conventional Wood Stoves  | 0 | 0 |
| City Park                            | Catalytic Wood Stoves     | 0 | 0 |
| City Park                            | Non-Catalytic Wood Stoves | 0 | 0 |
| City Park                            | Pellet Wood Stoves        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Wood Fireplaces           | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Gas Fireplaces            | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Propane Fireplaces        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Electric Fireplaces       | 0 | 0 |
| Fast Food Restaurant with Drive Thru | No Fireplaces             | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Conventional Wood Stoves  | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Catalytic Wood Stoves     | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Non-Catalytic Wood Stoves | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Pellet Wood Stoves        | 0 | 0 |
| Health Club                          | Wood Fireplaces           | 0 | 0 |
| Health Club                          | Gas Fireplaces            | 0 | 0 |
| Health Club                          | Propane Fireplaces        | 0 | 0 |
| Health Club                          | Electric Fireplaces       | 0 | 0 |
| Health Club                          | No Fireplaces             | 0 | 0 |

|                           |                           |   |   |
|---------------------------|---------------------------|---|---|
| Health Club               | Conventional Wood Stoves  | 0 | 0 |
| Health Club               | Catalytic Wood Stoves     | 0 | 0 |
| Health Club               | Non-Catalytic Wood Stoves | 0 | 0 |
| Health Club               | Pellet Wood Stoves        | 0 | 0 |
| Motel                     | Wood Fireplaces           | 0 | 0 |
| Motel                     | Gas Fireplaces            | 0 | 0 |
| Motel                     | Propane Fireplaces        | 0 | 0 |
| Motel                     | Electric Fireplaces       | 0 | 0 |
| Motel                     | No Fireplaces             | 0 | 0 |
| Motel                     | Conventional Wood Stoves  | 0 | 0 |
| Motel                     | Catalytic Wood Stoves     | 0 | 0 |
| Motel                     | Non-Catalytic Wood Stoves | 0 | 0 |
| Motel                     | Pellet Wood Stoves        | 0 | 0 |
| Quality Restaurant        | Wood Fireplaces           | 0 | 0 |
| Quality Restaurant        | Gas Fireplaces            | 0 | 0 |
| Quality Restaurant        | Propane Fireplaces        | 0 | 0 |
| Quality Restaurant        | Electric Fireplaces       | 0 | 0 |
| Quality Restaurant        | No Fireplaces             | 0 | 0 |
| Quality Restaurant        | Conventional Wood Stoves  | 0 | 0 |
| Quality Restaurant        | Catalytic Wood Stoves     | 0 | 0 |
| Quality Restaurant        | Non-Catalytic Wood Stoves | 0 | 0 |
| Quality Restaurant        | Pellet Wood Stoves        | 0 | 0 |
| User Defined Recreational | Wood Fireplaces           | 0 | 0 |
| User Defined Recreational | Gas Fireplaces            | 0 | 0 |
| User Defined Recreational | Propane Fireplaces        | 0 | 0 |
| User Defined Recreational | Electric Fireplaces       | 0 | 0 |
| User Defined Recreational | No Fireplaces             | 0 | 0 |
| User Defined Recreational | Conventional Wood Stoves  | 0 | 0 |

|                           |                           |     |     |
|---------------------------|---------------------------|-----|-----|
| User Defined Recreational | Catalytic Wood Stoves     | 0   | 0   |
| User Defined Recreational | Non-Catalytic Wood Stoves | 0   | 0   |
| User Defined Recreational | Pellet Wood Stoves        | 0   | 0   |
| Apartments Low Rise       | Wood Fireplaces           | 0   | 0   |
| Apartments Low Rise       | Gas Fireplaces            | 0   | 0   |
| Apartments Low Rise       | Propane Fireplaces        | 0   | 0   |
| Apartments Low Rise       | Electric Fireplaces       | 0   | 0   |
| Apartments Low Rise       | No Fireplaces             | 742 | 742 |
| Apartments Low Rise       | Conventional Wood Stoves  | 0   | 0   |
| Apartments Low Rise       | Catalytic Wood Stoves     | 0   | 0   |
| Apartments Low Rise       | Non-Catalytic Wood Stoves | 0   | 0   |
| Apartments Low Rise       | Pellet Wood Stoves        | 0   | 0   |
| Condo/Townhouse           | Wood Fireplaces           | 0   | 0   |
| Condo/Townhouse           | Gas Fireplaces            | 0   | 0   |
| Condo/Townhouse           | Propane Fireplaces        | 0   | 0   |
| Condo/Townhouse           | Electric Fireplaces       | 0   | 0   |
| Condo/Townhouse           | No Fireplaces             | 4   | 4   |
| Condo/Townhouse           | Conventional Wood Stoves  | 0   | 0   |
| Condo/Townhouse           | Catalytic Wood Stoves     | 0   | 0   |
| Condo/Townhouse           | Non-Catalytic Wood Stoves | 0   | 0   |
| Condo/Townhouse           | Pellet Wood Stoves        | 0   | 0   |
| Single Family Housing     | Wood Fireplaces           | 0   | 0   |
| Single Family Housing     | Gas Fireplaces            | 0   | 0   |
| Single Family Housing     | Propane Fireplaces        | 0   | 0   |
| Single Family Housing     | Electric Fireplaces       | 0   | 0   |
| Single Family Housing     | No Fireplaces             | 7   | 7   |
| Single Family Housing     | Conventional Wood Stoves  | 0   | 0   |
| Single Family Housing     | Catalytic Wood Stoves     | 0   | 0   |

|                              |                           |   |   |
|------------------------------|---------------------------|---|---|
| Single Family Housing        | Non-Catalytic Wood Stoves | 0 | 0 |
| Single Family Housing        | Pellet Wood Stoves        | 0 | 0 |
| Supermarket                  | Wood Fireplaces           | 0 | 0 |
| Supermarket                  | Gas Fireplaces            | 0 | 0 |
| Supermarket                  | Propane Fireplaces        | 0 | 0 |
| Supermarket                  | Electric Fireplaces       | 0 | 0 |
| Supermarket                  | No Fireplaces             | 0 | 0 |
| Supermarket                  | Conventional Wood Stoves  | 0 | 0 |
| Supermarket                  | Catalytic Wood Stoves     | 0 | 0 |
| Supermarket                  | Non-Catalytic Wood Stoves | 0 | 0 |
| Supermarket                  | Pellet Wood Stoves        | 0 | 0 |
| Automobile Care Center       | Wood Fireplaces           | 0 | 0 |
| Automobile Care Center       | Gas Fireplaces            | 0 | 0 |
| Automobile Care Center       | Propane Fireplaces        | 0 | 0 |
| Automobile Care Center       | Electric Fireplaces       | 0 | 0 |
| Automobile Care Center       | No Fireplaces             | 0 | 0 |
| Automobile Care Center       | Conventional Wood Stoves  | 0 | 0 |
| Automobile Care Center       | Catalytic Wood Stoves     | 0 | 0 |
| Automobile Care Center       | Non-Catalytic Wood Stoves | 0 | 0 |
| Automobile Care Center       | Pellet Wood Stoves        | 0 | 0 |
| Convenience Market (24 hour) | Wood Fireplaces           | 0 | 0 |
| Convenience Market (24 hour) | Gas Fireplaces            | 0 | 0 |
| Convenience Market (24 hour) | Propane Fireplaces        | 0 | 0 |
| Convenience Market (24 hour) | Electric Fireplaces       | 0 | 0 |
| Convenience Market (24 hour) | No Fireplaces             | 0 | 0 |
| Convenience Market (24 hour) | Conventional Wood Stoves  | 0 | 0 |
| Convenience Market (24 hour) | Catalytic Wood Stoves     | 0 | 0 |
| Convenience Market (24 hour) | Non-Catalytic Wood Stoves | 0 | 0 |



|                                   |                           |   |   |
|-----------------------------------|---------------------------|---|---|
| Convenience Market (24 hour)      | Pellet Wood Stoves        | 0 | 0 |
| Free-Standing Discount store      | Wood Fireplaces           | 0 | 0 |
| Free-Standing Discount store      | Gas Fireplaces            | 0 | 0 |
| Free-Standing Discount store      | Propane Fireplaces        | 0 | 0 |
| Free-Standing Discount store      | Electric Fireplaces       | 0 | 0 |
| Free-Standing Discount store      | No Fireplaces             | 0 | 0 |
| Free-Standing Discount store      | Conventional Wood Stoves  | 0 | 0 |
| Free-Standing Discount store      | Catalytic Wood Stoves     | 0 | 0 |
| Free-Standing Discount store      | Non-Catalytic Wood Stoves | 0 | 0 |
| Free-Standing Discount store      | Pellet Wood Stoves        | 0 | 0 |
| Free-Standing Discount Superstore | Wood Fireplaces           | 0 | 0 |
| Free-Standing Discount Superstore | Gas Fireplaces            | 0 | 0 |
| Free-Standing Discount Superstore | Propane Fireplaces        | 0 | 0 |
| Free-Standing Discount Superstore | Electric Fireplaces       | 0 | 0 |
| Free-Standing Discount Superstore | No Fireplaces             | 0 | 0 |
| Free-Standing Discount Superstore | Conventional Wood Stoves  | 0 | 0 |
| Free-Standing Discount Superstore | Catalytic Wood Stoves     | 0 | 0 |
| Free-Standing Discount Superstore | Non-Catalytic Wood Stoves | 0 | 0 |
| Free-Standing Discount Superstore | Pellet Wood Stoves        | 0 | 0 |
| Home Improvement Superstore       | Wood Fireplaces           | 0 | 0 |
| Home Improvement Superstore       | Gas Fireplaces            | 0 | 0 |
| Home Improvement Superstore       | Propane Fireplaces        | 0 | 0 |
| Home Improvement Superstore       | Electric Fireplaces       | 0 | 0 |
| Home Improvement Superstore       | No Fireplaces             | 0 | 0 |
| Home Improvement Superstore       | Conventional Wood Stoves  | 0 | 0 |
| Home Improvement Superstore       | Catalytic Wood Stoves     | 0 | 0 |
| Home Improvement Superstore       | Non-Catalytic Wood Stoves | 0 | 0 |
| Home Improvement Superstore       | Pellet Wood Stoves        | 0 | 0 |

|                          |                           |   |   |
|--------------------------|---------------------------|---|---|
| Regional Shopping Center | Wood Fireplaces           | 0 | 0 |
| Regional Shopping Center | Gas Fireplaces            | 0 | 0 |
| Regional Shopping Center | Propane Fireplaces        | 0 | 0 |
| Regional Shopping Center | Electric Fireplaces       | 0 | 0 |
| Regional Shopping Center | No Fireplaces             | 0 | 0 |
| Regional Shopping Center | Conventional Wood Stoves  | 0 | 0 |
| Regional Shopping Center | Catalytic Wood Stoves     | 0 | 0 |
| Regional Shopping Center | Non-Catalytic Wood Stoves | 0 | 0 |
| Regional Shopping Center | Pellet Wood Stoves        | 0 | 0 |
| Strip Mall               | Wood Fireplaces           | 0 | 0 |
| Strip Mall               | Gas Fireplaces            | 0 | 0 |
| Strip Mall               | Propane Fireplaces        | 0 | 0 |
| Strip Mall               | Electric Fireplaces       | 0 | 0 |
| Strip Mall               | No Fireplaces             | 0 | 0 |
| Strip Mall               | Conventional Wood Stoves  | 0 | 0 |
| Strip Mall               | Catalytic Wood Stoves     | 0 | 0 |
| Strip Mall               | Non-Catalytic Wood Stoves | 0 | 0 |
| Strip Mall               | Pellet Wood Stoves        | 0 | 0 |

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 1,212,199                                | 404,066                                  | 7,219,523                                    | 2,406,508                                    | 16,896.6                    |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value   |
|-------------|--------|---------|
| Snow Days   | day/yr | 0.00000 |
| Summer Days | day/yr | 250.000 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                             | Electricity (kWh/yr) | CO2     | CH4    | N2O    | Natural Gas (kBTU/yr) |
|--------------------------------------|----------------------|---------|--------|--------|-----------------------|
| Bank (with Drive-Through)            | 237,982              | 0.00000 | 0.0000 | 0.0000 | 1,046,740             |
| General Office Building              | 14,637,398           | 0.00000 | 0.0000 | 0.0000 | 21,150,607            |
| Government Office Building           | 4,478,201            | 0.00000 | 0.0000 | 0.0000 | 6,470,868             |
| Medical Office Building              | 263,169              | 0.00000 | 0.0000 | 0.0000 | 380,271               |
| Library                              | 337,161              | 0.00000 | 0.0000 | 0.0000 | 1,482,970             |
| Place of Worship                     | 1,550,652            | 0.00000 | 0.0000 | 0.0000 | 6,820,396             |
| General Heavy Industry               | 589,159              | 0.00000 | 0.0000 | 0.0000 | 2,591,361             |
| Unrefrigerated Warehouse-No Rail     | 17,620,639           | 0.00000 | 0.0000 | 0.0000 | 6,892,949             |
| Parking Lot                          | 246,690              | 0.00000 | 0.0000 | 0.0000 | 0.00000               |
| City Park                            | 0.00000              | 0.00000 | 0.0000 | 0.0000 | 0.00000               |
| Fast Food Restaurant with Drive Thru | 1,601,754            | 0.00000 | 0.0000 | 0.0000 | 4,934,829             |
| Health Club                          | 542,865              | 0.00000 | 0.0000 | 0.0000 | 2,387,740             |
| Motel                                | 99,553.6             | 0.00000 | 0.0000 | 0.0000 | 753,765               |
| Quality Restaurant                   | 1,672,299            | 0.00000 | 0.0000 | 0.0000 | 5,152,171             |
| User Defined Recreational            | 0.00000              | 0.00000 | 0.0000 | 0.0000 | 0.00000               |
| Apartments Low Rise                  | 3,671,674            | 0.00000 | 0.0000 | 0.0000 | 9,450,175             |
| Condo/Townhouse                      | 24,910.8             | 0.00000 | 0.0000 | 0.0000 | 70,041.5              |
| Single Family Housing                | 62,357.5             | 0.00000 | 0.0000 | 0.0000 | 275,318               |
| Supermarket                          | 3,099,262            | 0.00000 | 0.0000 | 0.0000 | 1,314,294             |
| Automobile Care Center               | 2,393,634            | 0.00000 | 0.0000 | 0.0000 | 10,528,177            |
| Convenience Market (24 hour)         | 102,474              | 0.00000 | 0.0000 | 0.0000 | 43,455.7              |
| Free-Standing Discount store         | 124,496              | 0.00000 | 0.0000 | 0.0000 | 117,096               |

|                                   |           |         |        |        |           |
|-----------------------------------|-----------|---------|--------|--------|-----------|
| Free-Standing Discount Superstore | 1,134,797 | 0.00000 | 0.0000 | 0.0000 | 1,067,344 |
| Home Improvement Superstore       | 1,957,854 | 0.00000 | 0.0000 | 0.0000 | 1,841,477 |
| Regional Shopping Center          | 1,079,238 | 0.00000 | 0.0000 | 0.0000 | 1,015,087 |
| Strip Mall                        | 5,880,451 | 0.00000 | 0.0000 | 0.0000 | 5,530,911 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                             | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------------|-------------------------|--------------------------|
| Bank (with Drive-Through)            | 1,048,819               | 0.00000                  |
| General Office Building              | 112,990,676             | 0.00000                  |
| Government Office Building           | 38,639,309              | 0.00000                  |
| Medical Office Building              | 1,434,243               | 0.00000                  |
| Library                              | 1,173,334               | 0.00000                  |
| Place of Worship                     | 5,396,398               | 0.00000                  |
| General Heavy Industry               | 15,084,438              | 0.00000                  |
| Unrefrigerated Warehouse-No Rail     | 482,893,938             | 0.00000                  |
| Parking Lot                          | 0.00000                 | 0.00000                  |
| City Park                            | 0.00000                 | 0.00000                  |
| Fast Food Restaurant with Drive Thru | 12,447,918              | 0.00000                  |
| Health Club                          | 3,571,063               | 0.00000                  |
| Motel                                | 1,598,107               | 0.00000                  |
| Quality Restaurant                   | 12,994,278              | 0.00000                  |
| User Defined Recreational            | 0.00000                 | 0.00000                  |
| Apartments Low Rise                  | 26,162,178              | 0.00000                  |
| Condo/Townhouse                      | 141,036                 | 0.00000                  |
| Single Family Housing                | 246,813                 | 1,399,567                |

|                                   |            |         |
|-----------------------------------|------------|---------|
| Supermarket                       | 8,053,112  | 0.00000 |
| Automobile Care Center            | 25,047,213 | 0.00000 |
| Convenience Market (24 hour)      | 159,997    | 0.00000 |
| Free-Standing Discount store      | 985,165    | 0.00000 |
| Free-Standing Discount Superstore | 8,979,071  | 0.00000 |
| Home Improvement Superstore       | 15,491,527 | 0.00000 |
| Regional Shopping Center          | 8,539,821  | 0.00000 |
| Strip Mall                        | 46,530,136 | 0.00000 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                             | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------------|------------------|-------------------------|
| Bank (with Drive-Through)            | 24.6965          | 0.00000                 |
| General Office Building              | 591.229          | 0.00000                 |
| Government Office Building           | 180.885          | 0.00000                 |
| Medical Office Building              | 123.444          | 0.00000                 |
| Library                              | 34.5343          | 0.00000                 |
| Place of Worship                     | 983.079          | 0.00000                 |
| General Heavy Industry               | 80.8852          | 0.00000                 |
| Unrefrigerated Warehouse-No Rail     | 1,962.90         | 0.00000                 |
| Parking Lot                          | 0.00000          | 0.00000                 |
| City Park                            | 1.68405          | 0.00000                 |
| Fast Food Restaurant with Drive Thru | 472.391          | 0.00000                 |
| Health Club                          | 344.166          | 0.00000                 |
| Motel                                | 34.4925          | 0.00000                 |
| Quality Restaurant                   | 39.0641          | 0.00000                 |
| User Defined Recreational            | 0.00000          | 0.00000                 |

|                                   |          |         |
|-----------------------------------|----------|---------|
| Apartments Low Rise               | 548.789  | 0.00000 |
| Condo/Townhouse                   | 2.90504  | 0.00000 |
| Single Family Housing             | 4.70354  | 0.00000 |
| Supermarket                       | 368.461  | 0.00000 |
| Automobile Care Center            | 1,017.00 | 0.00000 |
| Convenience Market (24 hour)      | 6.49133  | 0.00000 |
| Free-Standing Discount store      | 57.1993  | 0.00000 |
| Free-Standing Discount Superstore | 521.331  | 0.00000 |
| Home Improvement Superstore       | 2,319.19 | 0.00000 |
| Regional Shopping Center          | 121.055  | 0.00000 |
| Strip Mall                        | 659.578  | 0.00000 |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use                   | Equipment Type                          | Refrigerant | GWP      | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|----------------------------|-----------------------------------------|-------------|----------|---------------|----------------------|-------------------|----------------|
| Bank (with Drive-Through)  | Household refrigerators and/or freezers | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| Bank (with Drive-Through)  | Other commercial A/C and heat pumps     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| General Office Building    | Household refrigerators and/or freezers | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| General Office Building    | Other commercial A/C and heat pumps     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |
| Government Office Building | Household refrigerators and/or freezers | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000       |
| Government Office Building | Other commercial A/C and heat pumps     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000        |

|                                      |                                               |        |          |         |          |         |          |
|--------------------------------------|-----------------------------------------------|--------|----------|---------|----------|---------|----------|
| Medical Office Building              | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.45455 | 0.60000  | 0.00000 | 1.000000 |
| Medical Office Building              | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00230 | 4.00000  | 4.00000 | 18.0000  |
| Library                              | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.01679 | 0.60000  | 0.00000 | 1.000000 |
| Library                              | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Library                              | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.00004 | 1.000000 | 0.00000 | 1.000000 |
| Library                              | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Place of Worship                     | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.01679 | 0.60000  | 0.00000 | 1.000000 |
| Place of Worship                     | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Place of Worship                     | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.00004 | 1.000000 | 0.00000 | 1.000000 |
| Place of Worship                     | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| General Heavy Industry               | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.30000 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |

|                                      |                                                         |        |          |         |          |         |          |
|--------------------------------------|---------------------------------------------------------|--------|----------|---------|----------|---------|----------|
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Health Club                          | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Health Club                          | Stand-alone retail refrigerators and freezers           | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Motel                                | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Motel                                | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Motel                                | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Quality Restaurant                   | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Quality Restaurant                   | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Quality Restaurant                   | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Apartments Low Rise                  | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |
| Apartments Low Rise                  | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |
| Condo/Townhouse                      | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |
| Condo/Townhouse                      | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |
| Single Family Housing                | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |



|                                   |                                                |        |          |         |          |         |          |
|-----------------------------------|------------------------------------------------|--------|----------|---------|----------|---------|----------|
| Single Family Housing             | Household refrigerators and/or freezers        | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |
| Supermarket                       | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Supermarket                       | Supermarket refrigeration and condensing units | R-404A | 3,922.00 | 26.5200 | 16.5000  | 16.5000 | 18.0000  |
| Automobile Care Center            | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Convenience Market (24 hour)      | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Convenience Market (24 hour)      | Supermarket refrigeration and condensing units | R-404A | 3,922.00 | 26.5200 | 16.5000  | 16.5000 | 18.0000  |
| Free-Standing Discount store      | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Free-Standing Discount store      | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Free-Standing Discount Superstore | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Free-Standing Discount Superstore | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Free-Standing Discount Superstore | Walk-in refrigerators and freezers             | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Home Improvement Superstore       | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Home Improvement Superstore       | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Regional Shopping Center          | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Regional Shopping Center          | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |

|            |                                               |        |          |         |          |         |          |
|------------|-----------------------------------------------|--------|----------|---------|----------|---------|----------|
| Strip Mall | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Strip Mall | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Strip Mall | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 21.7600                     | annual days of extreme heat                |
| Extreme Precipitation        | 6.35000                     | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00000                     | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Wildfire                | 1   | 0   | 0   | N/A |
| Flooding                | 0   | 0   | 0   | N/A |
| Drought                 | 0   | 0   | 0   | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0   | 0   | 0   | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | 1              | 1                 | 1                       | 2                   |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | —                               |
| AQ-Ozone                        | 58.2327                         |
| AQ-PM                           | 37.4362                         |
| AQ-DPM                          | 27.4549                         |
| Drinking Water                  | 61.0716                         |
| Lead Risk Housing               | 92.2495                         |
| Pesticides                      | 7.24138                         |
| Toxic Releases                  | 21.8055                         |
| Traffic                         | 47.0125                         |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 80.9444                         |
| Groundwater                     | 99.2197                         |
| Haz Waste Facilities/Generators | 61.5751                         |
| Impaired Water Bodies           | 0.00000                         |
| Solid Waste                     | 52.8981                         |
| Sensitive Population            | —                               |
| Asthma                          | 93.3699                         |
| Cardio-vascular                 | 69.1550                         |
| Low Birth Weights               | 79.4072                         |
| Socioeconomic Factor Indicators | —                               |
| Education                       | 62.8575                         |
| Housing                         | 73.4094                         |
| Linguistic                      | 39.2069                         |
| Poverty                         | 91.6080                         |
| Unemployment                    | 65.6299                         |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator                                    | Result for Project Census Tract |
|----------------------------------------------|---------------------------------|
| Economic                                     | —                               |
| Above Poverty                                | 10.16296677                     |
| Employed                                     | 6.274862056                     |
| Median HI                                    | 6.672654947                     |
| Education                                    | —                               |
| Bachelor's or higher                         | 19.73566021                     |
| High school enrollment                       | 12.79353266                     |
| Preschool enrollment                         | 42.65366354                     |
| Transportation                               | —                               |
| Auto Access                                  | 24.89413576                     |
| Active commuting                             | 74.06646991                     |
| Social                                       | —                               |
| 2-parent households                          | 39.00936738                     |
| Voting                                       | 13.02450917                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 41.6527653                      |
| Park access                                  | 47.42717824                     |
| Retail density                               | 38.27794174                     |
| Supermarket access                           | 72.19299371                     |
| Tree canopy                                  | 82.34312845                     |
| Housing                                      | —                               |
| Homeownership                                | 23.13614782                     |
| Housing habitability                         | 24.91979982                     |
| Low-inc homeowner severe housing cost burden | 13.20415758                     |
| Low-inc renter severe housing cost burden    | 43.7957141                      |

|                                       |             |
|---------------------------------------|-------------|
| Uncrowded housing                     | 25.445913   |
| Health Outcomes                       | —           |
| Insured adults                        | 37.80315668 |
| Arthritis                             | 0.0         |
| Asthma ER Admissions                  | 5.9         |
| High Blood Pressure                   | 0.0         |
| Cancer (excluding skin)               | 0.0         |
| Asthma                                | 0.0         |
| Coronary Heart Disease                | 0.0         |
| Chronic Obstructive Pulmonary Disease | 0.0         |
| Diagnosed Diabetes                    | 0.0         |
| Life Expectancy at Birth              | 5.5         |
| Cognitively Disabled                  | 4.0         |
| Physically Disabled                   | 5.6         |
| Heart Attack ER Admissions            | 16.8        |
| Mental Health Not Good                | 0.0         |
| Chronic Kidney Disease                | 0.0         |
| Obesity                               | 0.0         |
| Pedestrian Injuries                   | 96.7        |
| Physical Health Not Good              | 0.0         |
| Stroke                                | 0.0         |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 0.0         |
| Current Smoker                        | 0.0         |
| No Leisure Time for Physical Activity | 0.0         |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 0.0         |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 16.3 |
| Elderly                          | 67.6 |
| English Speaking                 | 43.4 |
| Foreign-born                     | 30.0 |
| Outdoor Workers                  | 48.6 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 51.3 |
| Traffic Density                  | 47.2 |
| Traffic Access                   | 66.1 |
| Other Indices                    | —    |
| Hardship                         | 80.5 |
| Other Decision Support           | —    |
| 2016 Voting                      | 6.4  |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83.0000                         |
| Healthy Places Index Score for Project Location (b)                                 | 13.0000                         |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.



## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

### 8.1. Justifications

| Screen                               | Justification                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------|
| Characteristics: Utility Information | Implementation of RPS by 2045                                                             |
| Land Use                             | All existing land uses within Specific Plan Area per Development Assumptions spreadsheet. |

### 8.2. Project Characteristics

#### 8.2.2. Utility Information

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| CO2             | lb/MWh | 374.840       | 0.00000   |
| CH4             | lb/MWh | 0.01290       | 0.00000   |
| N2O             | lb/MWh | 0.00170       | 0.00000   |

### 8.3. Land Use

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| Lot Area        | acre   | 0.60767       | 2.01200   |
| Building Area   | sq. ft | 26,470.0      | 26,469.0  |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 14.5944       | 47.6662   |
| Building Area   | sq. ft | 635,730       | 635,734   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 4.46511       | 8.73600   |

|                |        |           |           |
|----------------|--------|-----------|-----------|
| Building Area  | sq. ft | 194,500   | 194,498   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.26240   | 1.00600   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.86088   | 6.55100   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 3.95937   | 23.8850   |
| Building Area  | sq. ft | 172,470   | 172,468   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 1.49747   | 11.2660   |
| Building Area  | sq. ft | 65,230.0  | 65,528.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 47.9382   | 129.931   |
| Building Area  | sq. ft | 2,088,190 | 2,088,194 |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.94146   | 10.7410   |
| Building Area  | sq. ft | 41,010.0  | 41,006.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 1.38613   | 5.36800   |
| Building Area  | sq. ft | 60,380.0  | 60,379.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 2.83500   | 1.06900   |
| Building Area  | sq. ft | 123,493   | 16,030.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.98278   | 7.04500   |
| Building Area  | sq. ft | 42,810.0  | 42,812.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.00000   | 0.87300   |

|                |        |          |          |
|----------------|--------|----------|----------|
| Building Area  | sq. ft | 0.00000  | 136.000  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 46.3750  | 32.4140  |
| Building Area  | sq. ft | 786,520  | 588,481  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.25000  | 0.39700  |
| Building Area  | sq. ft | 4,240.00 | 2,811.00 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.27273  | 2.73900  |
| Building Area  | sq. ft | 13,650.0 | 7,325.00 |
| Lot Area       | acre   | 1.49977  | 5.66600  |
| Building Area  | sq. ft | 65,330.0 | 65,328.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 6.11180  | 27.6610  |
| Building Area  | sq. ft | 266,230  | 266,227  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.04959  | 0.50700  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.30533  | 1.50500  |
| Building Area  | sq. ft | 13,300.0 | 13,299.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.78283  | 7.64800  |
| Building Area  | sq. ft | 121,220  | 121,222  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 4.80119  | 15.5080  |
| Building Area  | sq. ft | 209,140  | 209,143  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.64669  | 8.13600  |

|                |        |         |         |
|----------------|--------|---------|---------|
| Building Area  | sq. ft | 115,290 | 115,287 |
| Landscape Area | sq. ft | —       | 0.00000 |
| Lot Area       | acre   | 14.4208 | 62.8630 |
| Building Area  | sq. ft | 628,170 | 628,165 |
| Landscape Area | sq. ft | —       | 0.00000 |

# North Watt SP - Future Operations 2050 Detailed Report

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#### 5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures



## 7.5. Evaluation Scorecard

## 7.6. Health & Equity Custom Measures

# 8. User Changes to Default Data

## 8.1. Justifications

## 8.2. Project Characteristics

### 8.2.2. Utility Information

## 8.3. Land Use

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                  |
|-----------------------------|----------------------------------------|
| Project Name                | North Watt SP - Future Operations 2050 |
| Operational Year            | 2050                                   |
| Lead Agency                 | —                                      |
| Land Use Scale              | Project/site                           |
| Analysis Level for Defaults | County                                 |
| Windspeed (m/s)             | 3.50000                                |
| Precipitation (days)        | 39.2000                                |
| Location                    | 38.6729879394575, -121.38420471265154  |
| County                      | Sacramento                             |
| City                        | Unincorporated                         |
| Air District                | Sacramento Metropolitan AQMD           |
| Air Basin                   | Sacramento Valley                      |
| TAZ                         | 631                                    |
| EDFZ                        | 13                                     |
| Electric Utility            | Sacramento Municipal Utility District  |
| Gas Utility                 | Pacific Gas & Electric                 |
| App Version                 | 2022.1.1.43                            |

## 1.2. Land Use Types

| Land Use Subtype    | Size    | Unit          | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description      |
|---------------------|---------|---------------|-------------|-----------------------|------------------------|--------------------------------|------------|------------------|
| Apartments Low Rise | 48.0000 | Dwelling Unit | 2.95000     | 50,880.0              | 25,700.0               | —                              | 134.000    | Proposed project |

|                                      |          |                   |         |           |           |         |          |                             |
|--------------------------------------|----------|-------------------|---------|-----------|-----------|---------|----------|-----------------------------|
| Apartments Mid Rise                  | 7,212.00 | Dwelling Unit     | 207.890 | 6,923,520 | 1,811,100 | —       | 20,194.0 | Proposed project MU         |
| Regional Shopping Center             | 1,137.62 | 1000sqft          | 0.00000 | 1,137,621 | 0.00000   | —       | —        | Proposed project MU         |
| General Office Building              | 786.710  | 1000sqft          | 0.00000 | 786,708   | 0.00000   | —       | —        | Proposed project MU         |
| Parking Lot                          | 17,625.0 | Space             | 158.625 | 0.00000   | 0.00000   | —       | —        | Proposed project paved area |
| General Office Building              | 551.360  | 1000sqft          | 38.7500 | 551,359   | 0.00000   | —       | —        | Existing                    |
| Government Office Building           | 194.500  | 1000sqft          | 8.73600 | 194,498   | 0.00000   | —       | —        | Existing                    |
| Library                              | 37.5000  | 1000sqft          | 6.55100 | 37,500.0  | 0.00000   | —       | —        | Existing                    |
| Place of Worship                     | 172.470  | 1000sqft          | 23.8850 | 172,470   | 0.00000   | —       | —        | Existing                    |
| General Heavy Industry               | 56.1000  | 1000sqft          | 2.60800 | 56,095.0  | 0.00000   | —       | —        | Existing                    |
| Unrefrigerated Warehouse-No Rail     | 2,063.18 | 1000sqft          | 125.086 | 2,063,178 | 0.00000   | —       | —        | Existing                    |
| Parking Lot                          | 215.420  | 1000sqft          | 4.94536 | 0.00000   | 0.00000   | —       | —        | Existing                    |
| City Park                            | 19.5820  | Acre              | 19.5820 | 0.00000   | 0.00000   | 0.00000 | —        | Existing                    |
| Fast Food Restaurant with Drive Thru | 28.0500  | 1000sqft          | 7.15600 | 28,045.0  | 0.00000   | —       | —        | Existing                    |
| Health Club                          | 60.3800  | 1000sqft          | 5.36800 | 60,379.0  | 0.00000   | —       | —        | Existing                    |
| Motel                                | 63.0000  | Room              | 1.06900 | 16,030.0  | 0.00000   | —       | —        | Existing                    |
| Quality Restaurant                   | 9.58000  | 1000sqft          | 1.44700 | 9,577.00  | 0.00000   | —       | —        | Existing                    |
| User Defined Recreational            | 1.000000 | User Defined Unit | 0.87300 | 136.000   | 0.00000   | —       | —        | Existing                    |
| Apartments Low Rise                  | 742.000  | Dwelling Unit     | 32.4140 | 588,481   | 0.00000   | —       | 2,078.00 | Existing                    |
| Condo/Townhouse                      | 4.00000  | Dwelling Unit     | 0.39700 | 2,811.00  | 0.00000   | —       | 11.0000  | Existing                    |
| Single Family Housing                | 2.00000  | Dwelling Unit     | 2.10800 | 1,849.00  | 23,426.0  | —       | 6.00000  | Existing                    |

|                                   |         |          |         |          |         |   |   |          |
|-----------------------------------|---------|----------|---------|----------|---------|---|---|----------|
| Free-Standing Discount Superstore | 121.220 | 1000sqft | 7.64800 | 121,222  | 0.00000 | — | — | Existing |
| Home Improvement Superstore       | 209.140 | 1000sqft | 15.5080 | 209,143  | 0.00000 | — | — | Existing |
| Regional Shopping Center          | 97.3600 | 1000sqft | 6.62600 | 97,359.0 | 0.00000 | — | — | —        |
| Strip Mall                        | 384.580 | 1000sqft | 35.0890 | 384,579  | 0.00000 | — | — | —        |
| Supermarket                       | 60.9200 | 1000sqft | 5.21500 | 60,918.0 | 0.00000 | — | — | —        |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG      | ROG     | NOx     | CO       | SO2     | PM10E   | PM10D    | PM10T    | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2     | CO2T      | CH4     | N2O     | R        | CO2e      |
|---------------------|----------|---------|---------|----------|---------|---------|----------|----------|---------|---------|---------|----------|-----------|-----------|---------|---------|----------|-----------|
| Daily, Summer (Max) | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 1,042.88 | 998.974 | 396.207 | 5,322.21 | 11.8084 | 8.89520 | 1,230.13 | 1,239.02 | 8.46990 | 312.018 | 320.488 | 11,222.7 | 1,234,237 | 1,245,460 | 913.441 | 53.6266 | 12,928.2 | 1,297,204 |
| Daily, Winter (Max) | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 916.781  | 877.382 | 451.182 | 3,983.22 | 10.7390 | 8.23430 | 1,230.13 | 1,238.36 | 7.97096 | 312.018 | 319.989 | 11,222.7 | 1,127,350 | 1,138,573 | 919.069 | 58.3102 | 12,800.5 | 1,191,727 |
| Average Daily (Max) | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Unmit.              | 976.774  | 934.230 | 425.041 | 4,405.14 | 10.9767 | 8.68746 | 1,199.17 | 1,207.86 | 8.31317 | 304.280 | 312.593 | 11,222.7 | 1,150,514 | 1,161,737 | 916.069 | 55.8229 | 12,853.7 | 1,214,128 |

|              |         |         |         |         |         |         |         |         |         |         |         |          |         |         |         |         |          |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|---------|
| Annual (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —        | —       | —       | —       | —       | —        | —       |
| Unmit.       | 178.261 | 170.497 | 77.5699 | 803.938 | 2.00325 | 1.58546 | 218.849 | 220.434 | 1.51715 | 55.5310 | 57.0482 | 1,858.05 | 190,481 | 192,339 | 151.666 | 9.24212 | 2,128.07 | 201,013 |

## 2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector              | TOG      | ROG     | NOx     | CO       | SO2     | PM10E   | PM10D    | PM10T    | PM2.5E  | PM2.5D  | PM2.5T  | BCO2     | NBCO2     | CO2T      | CH4     | N2O     | R        | CO2e      |
|---------------------|----------|---------|---------|----------|---------|---------|----------|----------|---------|---------|---------|----------|-----------|-----------|---------|---------|----------|-----------|
| Daily, Summer (Max) | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile              | 626.852  | 591.705 | 337.550 | 4,572.46 | 11.4493 | 4.12642 | 1,230.13 | 1,234.25 | 3.86328 | 312.018 | 315.882 | —        | 1,167,533 | 1,167,533 | 38.4165 | 47.7717 | 131.107  | 1,182,860 |
| Area                | 410.084  | 404.300 | 6.38512 | 716.999  | 0.03524 | 0.66556 | —        | 0.66556  | 0.50340 | —       | 0.50340 | 0.00000  | 2,285.43  | 2,285.43  | 0.09569 | 0.01927 | —        | 2,293.57  |
| Energy              | 5.93886  | 2.96943 | 52.2714 | 32.7505  | 0.32394 | 4.10321 | —        | 4.10321  | 4.10321 | —       | 4.10321 | —        | 64,418.6  | 64,418.6  | 5.70102 | 0.12130 | —        | 64,597.3  |
| Water               | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 2,615.68 | 0.00000   | 2,615.68  | 8.98720 | 5.71425 | —        | 4,543.20  |
| Waste               | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 8,607.02 | 0.00000   | 8,607.02  | 860.241 | 0.00000 | —        | 30,113.0  |
| Refrig.             | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | 12,797.1 | 12,797.1  |
| Total               | 1,042.88 | 998.974 | 396.207 | 5,322.21 | 11.8084 | 8.89520 | 1,230.13 | 1,239.02 | 8.46990 | 312.018 | 320.488 | 11,222.7 | 1,234,237 | 1,245,460 | 913.441 | 53.6266 | 12,928.2 | 1,297,204 |
| Daily, Winter (Max) | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | —        | —         |
| Mobile              | 588.804  | 552.373 | 398.911 | 3,950.47 | 10.4151 | 4.13109 | 1,230.13 | 1,234.26 | 3.86775 | 312.018 | 315.886 | —        | 1,062,932 | 1,062,932 | 44.1401 | 52.4746 | 3.40005  | 1,079,676 |
| Area                | 322.039  | 322.039 | 0.00000 | 0.00000  | 0.00000 | 0.00000 | —        | 0.00000  | 0.00000 | —       | 0.00000 | 0.00000  | 0.00000   | 0.00000   | 0.00000 | 0.00000 | —        | 0.00000   |
| Energy              | 5.93886  | 2.96943 | 52.2714 | 32.7505  | 0.32394 | 4.10321 | —        | 4.10321  | 4.10321 | —       | 4.10321 | —        | 64,418.6  | 64,418.6  | 5.70102 | 0.12130 | —        | 64,597.3  |
| Water               | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 2,615.68 | 0.00000   | 2,615.68  | 8.98720 | 5.71425 | —        | 4,543.20  |
| Waste               | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 8,607.02 | 0.00000   | 8,607.02  | 860.241 | 0.00000 | —        | 30,113.0  |
| Refrig.             | —        | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —        | —         | —         | —       | —       | 12,797.1 | 12,797.1  |
| Total               | 916.781  | 877.382 | 451.182 | 3,983.22 | 10.7390 | 8.23430 | 1,230.13 | 1,238.36 | 7.97096 | 312.018 | 319.989 | 11,222.7 | 1,127,350 | 1,138,573 | 919.069 | 58.3102 | 12,800.5 | 1,191,727 |

|               |         |         |         |          |         |         |          |          |         |         |         |           |           |           |         |         |          |           |
|---------------|---------|---------|---------|----------|---------|---------|----------|----------|---------|---------|---------|-----------|-----------|-----------|---------|---------|----------|-----------|
| Average Daily | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —         | —         | —         | —       | —       | —        | —         |
| Mobile        | 588.491 | 552.878 | 368.396 | 3,881.30 | 10.6287 | 4.12838 | 1,199.17 | 1,203.30 | 3.86516 | 304.280 | 308.145 | —         | 1,084,530 | 1,084,530 | 41.0747 | 49.9741 | 56.6115  | 1,100,506 |
| Area          | 382.344 | 378.382 | 4.37337 | 491.095  | 0.02414 | 0.45586 | —        | 0.45586  | 0.34480 | —       | 0.34480 | 0.00000   | 1,565.37  | 1,565.37  | 0.06554 | 0.01320 | —        | 1,570.94  |
| Energy        | 5.93886 | 2.96943 | 52.2714 | 32.7505  | 0.32394 | 4.10321 | —        | 4.10321  | 4.10321 | —       | 4.10321 | —         | 64,418.6  | 64,418.6  | 5.70102 | 0.12130 | —        | 64,597.3  |
| Water         | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 2,615.68  | 0.00000   | 2,615.68  | 8.98720 | 5.71425 | —        | 4,543.20  |
| Waste         | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 8,607.02  | 0.00000   | 8,607.02  | 860.241 | 0.00000 | —        | 30,113.0  |
| Refrig.       | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —         | —         | —         | —       | —       | 12,797.1 | 12,797.1  |
| Total         | 976.774 | 934.230 | 425.041 | 4,405.14 | 10.9767 | 8.68746 | 1,199.17 | 1,207.86 | 8.31317 | 304.280 | 312.593 | 11,222.74 | 1,150,514 | 1,161,737 | 916.069 | 55.8229 | 12,853.7 | 1,214,128 |
| Annual        | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —         | —         | —         | —       | —       | —        | —         |
| Mobile        | 107.400 | 100.900 | 67.2323 | 708.337  | 1.93973 | 0.75343 | 218.849  | 219.602  | 0.70539 | 55.5310 | 56.2364 | —         | 179,556   | 179,556   | 6.80039 | 8.27379 | 9.37267  | 182,201   |
| Area          | 69.7777 | 69.0548 | 0.79814 | 89.6248  | 0.00440 | 0.08320 | —        | 0.08320  | 0.06293 | —       | 0.06293 | 0.00000   | 259.164   | 259.164   | 0.01085 | 0.00218 | —        | 260.086   |
| Energy        | 1.08384 | 0.54192 | 9.53952 | 5.97697  | 0.05912 | 0.74884 | —        | 0.74884  | 0.74884 | —       | 0.74884 | —         | 10,665.2  | 10,665.2  | 0.94387 | 0.02008 | —        | 10,694.8  |
| Water         | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 433.055   | 0.00000   | 433.055   | 1.48793 | 0.94606 | —        | 752.179   |
| Waste         | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | 1,424.99  | 0.00000   | 1,424.99  | 142.423 | 0.00000 | —        | 4,985.56  |
| Refrig.       | —       | —       | —       | —        | —       | —       | —        | —        | —       | —       | —       | —         | —         | —         | —       | —       | 2,118.70 | 2,118.70  |
| Total         | 178.261 | 170.497 | 77.5699 | 803.938  | 2.00325 | 1.58546 | 218.849  | 220.434  | 1.51715 | 55.5310 | 57.0482 | 1,858.05  | 190,481   | 192,339   | 151.666 | 9.24212 | 2,128.07 | 201,013   |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —       | —       | —       | —       | — | —       |
| Apartments Low Rise              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments Mid Rise              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Regional Shopping Center         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of Worship                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Heavy Industry           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore    | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | —       | —       | — | —       |



|                                        |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Apartments<br>Low Rise                 | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Apartments<br>Mid Rise                 | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Regional<br>Shopping<br>Center         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government<br>Office<br>Building       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of<br>Worship                    | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General<br>Heavy<br>Industry           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrigerated<br>Warehouse-No<br>Rail | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City<br>Park                           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore    | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | —       | —       | — | —       |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Apartments                           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Office Building              | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---|---------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2    | CO2T     | CH4     | N2O     | R | CO2e     |
|---------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|------|----------|----------|---------|---------|---|----------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —        | —        | —       | —       | — | —        |
| Apartments Low Rise | 0.29728 | 0.14864 | 2.54038 | 1.08101 | 0.01622 | 0.20539 | —     | 0.20539 | 0.20539 | —      | 0.20539 | —    | 3,224.56 | 3,224.56 | 0.28537 | 0.00607 | — | 3,233.51 |

|                                                     |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Apartments<br>Mid Rise                              | 2.84853 | 1.42427 | 24.3420 | 10.3583 | 0.15537 | 1.96808 | — | 1.96808 | 1.96808 | — | 1.96808 | — | 30,897.9 | 30,897.9 | 2.73445 | 0.05818 | — | 30,983.6 |
| Regional<br>Shopping<br>Center                      | 0.32128 | 0.16064 | 2.92072 | 2.45340 | 0.01752 | 0.22197 | — | 0.22197 | 0.22197 | — | 0.22197 | — | 3,484.91 | 3,484.91 | 0.30841 | 0.00656 | — | 3,494.57 |
| General<br>Office<br>Building                       | 1.31530 | 0.65765 | 11.9573 | 10.0441 | 0.07174 | 0.90875 | — | 0.90875 | 0.90875 | — | 0.90875 | — | 14,267.0 | 14,267.0 | 1.26263 | 0.02686 | — | 14,306.6 |
| Parking<br>Lot                                      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Government<br>Office<br>Building                    | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Library                                             | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of<br>Worship                                 | 0.20152 | 0.10076 | 1.83198 | 1.53887 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.86 | 2,185.86 | 0.19345 | 0.00412 | — | 2,191.92 |
| General<br>Heavy<br>Industry                        | 0.06554 | 0.03277 | 0.59584 | 0.50051 | 0.00358 | 0.04528 | — | 0.04528 | 0.04528 | — | 0.04528 | — | 710.941  | 710.941  | 0.06292 | 0.00134 | — | 712.913  |
| Unrefrigerated<br>Warehouse-No<br>Rail              | 0.20122 | 0.10061 | 1.82927 | 1.53659 | 0.01098 | 0.13902 | — | 0.13902 | 0.13902 | — | 0.13902 | — | 2,182.62 | 2,182.62 | 0.19316 | 0.00411 | — | 2,188.68 |
| City<br>Park                                        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | 0.09972 | 0.04986 | 0.90654 | 0.76149 | 0.00544 | 0.06890 | — | 0.06890 | 0.06890 | — | 0.06890 | — | 1,081.65 | 1,081.65 | 0.09573 | 0.00204 | — | 1,084.65 |
| Health<br>Club                                      | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Motel                             | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |
| Quality Restaurant                | 0.03405 | 0.01703 | 0.30957 | 0.26004 | 0.00186 | 0.02353 | — | 0.02353 | 0.02353 | — | 0.02353 | — | 369.371  | 369.371  | 0.03269 | 0.00070 | — | 370.395  |
| User Defined Recreational         | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                   | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing             | 0.00232 | 0.00116 | 0.01986 | 0.00845 | 0.00013 | 0.00161 | — | 0.00161 | 0.00161 | — | 0.00161 | — | 25.2101  | 25.2101  | 0.00223 | 0.00005 | — | 25.2800  |
| Free-Standing Discount Superstore | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore       | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |
| Strip Mall                        | 0.10005 | 0.05002 | 0.90953 | 0.76400 | 0.00546 | 0.06912 | — | 0.06912 | 0.06912 | — | 0.06912 | — | 1,085.22 | 1,085.22 | 0.09604 | 0.00204 | — | 1,088.23 |
| Supermarket                       | 0.03621 | 0.01811 | 0.32919 | 0.27652 | 0.00198 | 0.02502 | — | 0.02502 | 0.02502 | — | 0.02502 | — | 392.778  | 392.778  | 0.03476 | 0.00074 | — | 393.867  |
| Total                             | 5.93886 | 2.96943 | 52.2714 | 32.7505 | 0.32394 | 4.10321 | — | 4.10321 | 4.10321 | — | 4.10321 | — | 64,418.6 | 64,418.6 | 5.70102 | 0.12130 | — | 64,597.3 |
| Daily, Winter (Max)               | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Apartments Low Rise               | 0.29728 | 0.14864 | 2.54038 | 1.08101 | 0.01622 | 0.20539 | — | 0.20539 | 0.20539 | — | 0.20539 | — | 3,224.56 | 3,224.56 | 0.28537 | 0.00607 | — | 3,233.51 |
| Apartments Mid Rise               | 2.84853 | 1.42427 | 24.3420 | 10.3583 | 0.15537 | 1.96808 | — | 1.96808 | 1.96808 | — | 1.96808 | — | 30,897.9 | 30,897.9 | 2.73445 | 0.05818 | — | 30,983.6 |

|                                      |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Regional Shopping Center             | 0.32128 | 0.16064 | 2.92072 | 2.45340 | 0.01752 | 0.22197 | — | 0.22197 | 0.22197 | — | 0.22197 | — | 3,484.91 | 3,484.91 | 0.30841 | 0.00656 | — | 3,494.57 |
| General Office Building              | 1.31530 | 0.65765 | 11.9573 | 10.0441 | 0.07174 | 0.90875 | — | 0.90875 | 0.90875 | — | 0.90875 | — | 14,267.0 | 14,267.0 | 1.26263 | 0.02686 | — | 14,306.6 |
| Parking Lot                          | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Government Office Building           | 0.19119 | 0.09559 | 1.73808 | 1.45999 | 0.01043 | 0.13209 | — | 0.13209 | 0.13209 | — | 0.13209 | — | 2,073.82 | 2,073.82 | 0.18353 | 0.00390 | — | 2,079.57 |
| Library                              | 0.04382 | 0.02191 | 0.39833 | 0.33459 | 0.00239 | 0.03027 | — | 0.03027 | 0.03027 | — | 0.03027 | — | 475.270  | 475.270  | 0.04206 | 0.00089 | — | 476.588  |
| Place of Worship                     | 0.20152 | 0.10076 | 1.83198 | 1.53887 | 0.01099 | 0.13923 | — | 0.13923 | 0.13923 | — | 0.13923 | — | 2,185.86 | 2,185.86 | 0.19345 | 0.00412 | — | 2,191.92 |
| General Heavy Industry               | 0.06554 | 0.03277 | 0.59584 | 0.50051 | 0.00358 | 0.04528 | — | 0.04528 | 0.04528 | — | 0.04528 | — | 710.941  | 710.941  | 0.06292 | 0.00134 | — | 712.913  |
| Unrefrigerated Warehouse-No Rail     | 0.20122 | 0.10061 | 1.82927 | 1.53659 | 0.01098 | 0.13902 | — | 0.13902 | 0.13902 | — | 0.13902 | — | 2,182.62 | 2,182.62 | 0.19316 | 0.00411 | — | 2,188.68 |
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast Food Restaurant with Drive Thru | 0.09972 | 0.04986 | 0.90654 | 0.76149 | 0.00544 | 0.06890 | — | 0.06890 | 0.06890 | — | 0.06890 | — | 1,081.65 | 1,081.65 | 0.09573 | 0.00204 | — | 1,084.65 |
| Health Club                          | 0.07055 | 0.03527 | 0.64135 | 0.53873 | 0.00385 | 0.04874 | — | 0.04874 | 0.04874 | — | 0.04874 | — | 765.236  | 765.236  | 0.06772 | 0.00144 | — | 767.358  |
| Motel                                | 0.02227 | 0.01114 | 0.20246 | 0.17007 | 0.00121 | 0.01539 | — | 0.01539 | 0.01539 | — | 0.01539 | — | 241.570  | 241.570  | 0.02138 | 0.00045 | — | 242.240  |
| Quality Restaurant                   | 0.03405 | 0.01703 | 0.30957 | 0.26004 | 0.00186 | 0.02353 | — | 0.02353 | 0.02353 | — | 0.02353 | — | 369.371  | 369.371  | 0.03269 | 0.00070 | — | 370.395  |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| User Defined Recreational         | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                   | 0.00207 | 0.00103 | 0.01768 | 0.00753 | 0.00011 | 0.00143 | — | 0.00143 | 0.00143 | — | 0.00143 | — | 22.4473  | 22.4473  | 0.00199 | 0.00004 | — | 22.5095  |
| Single Family Housing             | 0.00232 | 0.00116 | 0.01986 | 0.00845 | 0.00013 | 0.00161 | — | 0.00161 | 0.00161 | — | 0.00161 | — | 25.2101  | 25.2101  | 0.00223 | 0.00005 | — | 25.2800  |
| Free-Standing Discount Superstore | 0.03154 | 0.01577 | 0.28669 | 0.24082 | 0.00172 | 0.02179 | — | 0.02179 | 0.02179 | — | 0.02179 | — | 342.068  | 342.068  | 0.03027 | 0.00064 | — | 343.017  |
| Home Improvement Superstore       | 0.05441 | 0.02720 | 0.49462 | 0.41548 | 0.00297 | 0.03759 | — | 0.03759 | 0.03759 | — | 0.03759 | — | 590.166  | 590.166  | 0.05223 | 0.00111 | — | 591.803  |
| Strip Mall                        | 0.10005 | 0.05002 | 0.90953 | 0.76400 | 0.00546 | 0.06912 | — | 0.06912 | 0.06912 | — | 0.06912 | — | 1,085.22 | 1,085.22 | 0.09604 | 0.00204 | — | 1,088.23 |
| Supermarket                       | 0.03621 | 0.01811 | 0.32919 | 0.27652 | 0.00198 | 0.02502 | — | 0.02502 | 0.02502 | — | 0.02502 | — | 392.778  | 392.778  | 0.03476 | 0.00074 | — | 393.867  |
| Total                             | 5.93886 | 2.96943 | 52.2714 | 32.7505 | 0.32394 | 4.10321 | — | 4.10321 | 4.10321 | — | 4.10321 | — | 64,418.6 | 64,418.6 | 5.70102 | 0.12130 | — | 64,597.3 |
| Annual                            | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | — | —        | —        | —       | —       | — | —        |
| Apartments Low Rise               | 0.05425 | 0.02713 | 0.46362 | 0.19728 | 0.00296 | 0.03748 | — | 0.03748 | 0.03748 | — | 0.03748 | — | 533.864  | 533.864  | 0.04725 | 0.00101 | — | 535.344  |
| Apartments Mid Rise               | 0.51986 | 0.25993 | 4.44241 | 1.89039 | 0.02836 | 0.35917 | — | 0.35917 | 0.35917 | — | 0.35917 | — | 5,115.50 | 5,115.50 | 0.45272 | 0.00963 | — | 5,129.69 |
| Regional Shopping Center          | 0.05863 | 0.02932 | 0.53303 | 0.44775 | 0.00320 | 0.04051 | — | 0.04051 | 0.04051 | — | 0.04051 | — | 576.966  | 576.966  | 0.05106 | 0.00109 | — | 578.566  |
| General Office Building           | 0.24004 | 0.12002 | 2.18220 | 1.83305 | 0.01309 | 0.16585 | — | 0.16585 | 0.16585 | — | 0.16585 | — | 2,362.07 | 2,362.07 | 0.20904 | 0.00445 | — | 2,368.62 |



|                                      |         |         |         |         |         |         |   |         |         |   |         |   |         |         |         |         |   |         |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|---------|---------|---------|---------|---|---------|
| Parking Lot                          | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building           | 0.03489 | 0.01745 | 0.31720 | 0.26645 | 0.00190 | 0.02411 | — | 0.02411 | 0.02411 | — | 0.02411 | — | 343.344 | 343.344 | 0.03039 | 0.00065 | — | 344.297 |
| Library                              | 0.00800 | 0.00400 | 0.07269 | 0.06106 | 0.00044 | 0.00552 | — | 0.00552 | 0.00552 | — | 0.00552 | — | 78.6864 | 78.6864 | 0.00696 | 0.00015 | — | 78.9046 |
| Place of Worship                     | 0.03678 | 0.01839 | 0.33434 | 0.28084 | 0.00201 | 0.02541 | — | 0.02541 | 0.02541 | — | 0.02541 | — | 361.894 | 361.894 | 0.03203 | 0.00068 | — | 362.898 |
| General Heavy Industry               | 0.01196 | 0.00598 | 0.10874 | 0.09134 | 0.00065 | 0.00826 | — | 0.00826 | 0.00826 | — | 0.00826 | — | 117.704 | 117.704 | 0.01042 | 0.00022 | — | 118.031 |
| Unrefrigerated Warehouse-No Rail     | 0.03672 | 0.01836 | 0.33384 | 0.28043 | 0.00200 | 0.02537 | — | 0.02537 | 0.02537 | — | 0.02537 | — | 361.358 | 361.358 | 0.03198 | 0.00068 | — | 362.361 |
| City Park                            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | 0.01820 | 0.00910 | 0.16544 | 0.13897 | 0.00099 | 0.01257 | — | 0.01257 | 0.01257 | — | 0.01257 | — | 179.080 | 179.080 | 0.01585 | 0.00034 | — | 179.577 |
| Health Club                          | 0.01288 | 0.00644 | 0.11705 | 0.09832 | 0.00070 | 0.00890 | — | 0.00890 | 0.00890 | — | 0.00890 | — | 126.693 | 126.693 | 0.01121 | 0.00024 | — | 127.045 |
| Motel                                | 0.00406 | 0.00203 | 0.03695 | 0.03104 | 0.00022 | 0.00281 | — | 0.00281 | 0.00281 | — | 0.00281 | — | 39.9947 | 39.9947 | 0.00354 | 0.00008 | — | 40.1057 |
| Quality Restaurant                   | 0.00621 | 0.00311 | 0.05650 | 0.04746 | 0.00034 | 0.00429 | — | 0.00429 | 0.00429 | — | 0.00429 | — | 61.1535 | 61.1535 | 0.00541 | 0.00012 | — | 61.3231 |
| User Defined Recreational            | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                      | 0.00038 | 0.00019 | 0.00323 | 0.00137 | 0.00002 | 0.00026 | — | 0.00026 | 0.00026 | — | 0.00026 | — | 3.71640 | 3.71640 | 0.00033 | 0.00001 | — | 3.72671 |

|                                   |         |         |         |         |         |         |   |         |         |   |         |   |          |          |         |         |   |          |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---|----------|----------|---------|---------|---|----------|
| Single Family Housing             | 0.00042 | 0.00021 | 0.00362 | 0.00154 | 0.00002 | 0.00029 | — | 0.00029 | 0.00029 | — | 0.00029 | — | 4.17382  | 4.17382  | 0.00037 | 0.00001 | — | 4.18540  |
| Free-Standing Discount Superstore | 0.00576 | 0.00288 | 0.05232 | 0.04395 | 0.00031 | 0.00398 | — | 0.00398 | 0.00398 | — | 0.00398 | — | 56.6333  | 56.6333  | 0.00501 | 0.00011 | — | 56.7903  |
| Home Improvement Superstore       | 0.00993 | 0.00496 | 0.09027 | 0.07583 | 0.00054 | 0.00686 | — | 0.00686 | 0.00686 | — | 0.00686 | — | 97.7088  | 97.7088  | 0.00865 | 0.00018 | — | 97.9798  |
| Strip Mall                        | 0.01826 | 0.00913 | 0.16599 | 0.13943 | 0.00100 | 0.01262 | — | 0.01262 | 0.01262 | — | 0.01262 | — | 179.670  | 179.670  | 0.01590 | 0.00034 | — | 180.168  |
| Supermarket                       | 0.00661 | 0.00330 | 0.06008 | 0.05046 | 0.00036 | 0.00457 | — | 0.00457 | 0.00457 | — | 0.00457 | — | 65.0288  | 65.0288  | 0.00576 | 0.00012 | — | 65.2092  |
| Total                             | 1.08384 | 0.54192 | 9.53952 | 5.97697 | 0.05912 | 0.74884 | — | 0.74884 | 0.74884 | — | 0.74884 | — | 10,665.2 | 10,665.2 | 0.94387 | 0.02008 | — | 10,694.8 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source                 | TOG     | ROG     | NOx     | CO      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|------------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max)    | —       | —       | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |
| Hearths                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —     | 0.00000 | 0.00000 | —      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Consumer Products      | 290.624 | 290.624 | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |
| Architectural Coatings | 31.4153 | 31.4153 | —       | —       | —       | —       | —     | —       | —       | —      | —       | —       | —       | —       | —       | —       | — | —       |

|                        |         |         |         |         |         |         |   |         |         |   |         |         |          |          |         |         |   |          |
|------------------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---|---------|---------|----------|----------|---------|---------|---|----------|
| Landscape Equipm       | 88.0450 | 82.2613 | 6.38512 | 716.999 | 0.03524 | 0.66556 | — | 0.66556 | 0.50340 | — | 0.50340 | —       | 2,285.43 | 2,285.43 | 0.09569 | 0.01927 | — | 2,293.57 |
| Total                  | 410.084 | 404.300 | 6.38512 | 716.999 | 0.03524 | 0.66556 | — | 0.66556 | 0.50340 | — | 0.50340 | 0.00000 | 2,285.43 | 2,285.43 | 0.09569 | 0.01927 | — | 2,293.57 |
| Daily, Winter (Max)    | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Hearths                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Consumer Products      | 290.624 | 290.624 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Architectural Coatings | 31.4153 | 31.4153 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Total                  | 322.039 | 322.039 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Annual                 | —       | —       | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Hearths                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000  | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Consumer Products      | 53.0388 | 53.0388 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Architectural Coatings | 5.73329 | 5.73329 | —       | —       | —       | —       | — | —       | —       | — | —       | —       | —        | —        | —       | —       | — | —        |
| Landscape Equipment    | 11.0056 | 10.2827 | 0.79814 | 89.6248 | 0.00440 | 0.08320 | — | 0.08320 | 0.06293 | — | 0.06293 | —       | 259.164  | 259.164  | 0.01085 | 0.00218 | — | 260.086  |
| Total                  | 69.7777 | 69.0548 | 0.79814 | 89.6248 | 0.00440 | 0.08320 | — | 0.08320 | 0.06293 | — | 0.06293 | 0.00000 | 259.164  | 259.164  | 0.01085 | 0.00218 | — | 260.086  |

#### 4.4. Water Emissions by Land Use

## 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2    | NBCO2   | CO2T    | CH4     | N2O     | R | CO2e    |
|----------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---|---------|
| Daily, Summer (Max)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —       | —       | —       | —       | —       | — | —       |
| Apartments Low Rise        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 59.5249 | 0.00000 | 59.5249 | 0.20452 | 0.13004 | — | 103.390 |
| Apartments Mid Rise        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 543.410 | 0.00000 | 543.410 | 1.86710 | 1.18714 | — | 943.855 |
| Regional Shopping Center   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 195.487 | 0.00000 | 195.487 | 0.67167 | 0.42706 | — | 339.545 |
| General Office Building    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 508.219 | 0.00000 | 508.219 | 1.74619 | 1.11026 | — | 882.731 |
| Parking Lot                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 82.5717 | 0.00000 | 82.5717 | 0.28371 | 0.18039 | — | 143.420 |
| Library                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 2.50740 | 0.00000 | 2.50740 | 0.00862 | 0.00548 | — | 4.35513 |
| Place of Worship           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 11.5320 | 0.00000 | 11.5320 | 0.03962 | 0.02519 | — | 20.0301 |
| General Heavy Industry     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 27.7234 | 0.00000 | 27.7234 | 0.09525 | 0.06056 | — | 48.1531 |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Unrefrig<br>erated<br>Wareho<br>use-No              | — | — | — | — | — | — | — | — | — | — | — | 1,019.58 | 0.00000 | 1,019.58 | 3.50317 | 2.22739 | — | 1,770.92 |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | 18.1946  | 0.00000 | 18.1946  | 0.06251 | 0.03975 | — | 31.6024  |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | 7.63131  | 0.00000 | 7.63131  | 0.02622 | 0.01667 | — | 13.2549  |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | 3.41513  | 0.00000 | 3.41513  | 0.01173 | 0.00746 | — | 5.93179  |
| Quality<br>Restaurant                               | — | — | — | — | — | — | — | — | — | — | — | 6.21404  | 0.00000 | 6.21404  | 0.02135 | 0.01358 | — | 10.7932  |
| User<br>Defined<br>Recreational                     | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/T<br>ownhou<br>se                             | — | — | — | — | — | — | — | — | — | — | — | 0.30139  | 0.00000 | 0.30139  | 0.00104 | 0.00066 | — | 0.52349  |
| Single<br>Family<br>Housing                         | — | — | — | — | — | — | — | — | — | — | — | 0.15070  | 0.00000 | 0.15070  | 0.00052 | 0.00033 | — | 0.26175  |
| Free-Sta<br>nding<br>Discount<br>Superstore         | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 0.00000 | 19.1882  | 0.06593 | 0.04192 | — | 33.3281  |
| Home<br>Improvement<br>Superstore                   | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 0.00000 | 33.1052  | 0.11375 | 0.07232 | — | 57.5008  |
| Strip<br>Mall                                       | — | — | — | — | — | — | — | — | — | — | — | 60.8759  | 0.00000 | 60.8759  | 0.20916 | 0.13299 | — | 105.736  |
| Superm<br>arket                                     | — | — | — | — | — | — | — | — | — | — | — | 16.0477  | 0.00000 | 16.0477  | 0.05514 | 0.03506 | — | 27.8735  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 2,615.68 | 0.00000 | 2,615.68 | 8.98720 | 5.71425 | — | 4,543.20 |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Apartments Low Rise              | — | — | — | — | — | — | — | — | — | — | — | 59.5249  | 0.00000 | 59.5249  | 0.20452 | 0.13004 | — | 103.390  |
| Apartments Mid Rise              | — | — | — | — | — | — | — | — | — | — | — | 543.410  | 0.00000 | 543.410  | 1.86710 | 1.18714 | — | 943.855  |
| Regional Shopping Center         | — | — | — | — | — | — | — | — | — | — | — | 195.487  | 0.00000 | 195.487  | 0.67167 | 0.42706 | — | 339.545  |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 508.219  | 0.00000 | 508.219  | 1.74619 | 1.11026 | — | 882.731  |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Government Office Building       | — | — | — | — | — | — | — | — | — | — | — | 82.5717  | 0.00000 | 82.5717  | 0.28371 | 0.18039 | — | 143.420  |
| Library                          | — | — | — | — | — | — | — | — | — | — | — | 2.50740  | 0.00000 | 2.50740  | 0.00862 | 0.00548 | — | 4.35513  |
| Place of Worship                 | — | — | — | — | — | — | — | — | — | — | — | 11.5320  | 0.00000 | 11.5320  | 0.03962 | 0.02519 | — | 20.0301  |
| General Heavy Industry           | — | — | — | — | — | — | — | — | — | — | — | 27.7234  | 0.00000 | 27.7234  | 0.09525 | 0.06056 | — | 48.1531  |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 1,019.58 | 0.00000 | 1,019.58 | 3.50317 | 2.22739 | — | 1,770.92 |
| City Park                        | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 18.1946  | 0.00000 | 18.1946  | 0.06251 | 0.03975 | — | 31.6024  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 7.63131  | 0.00000 | 7.63131  | 0.02622 | 0.01667 | — | 13.2549  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.41513  | 0.00000 | 3.41513  | 0.01173 | 0.00746 | — | 5.93179  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 6.21404  | 0.00000 | 6.21404  | 0.02135 | 0.01358 | — | 10.7932  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 0.30139  | 0.00000 | 0.30139  | 0.00104 | 0.00066 | — | 0.52349  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.15070  | 0.00000 | 0.15070  | 0.00052 | 0.00033 | — | 0.26175  |
| Free-Standing Discount Superstore    | — | — | — | — | — | — | — | — | — | — | — | 19.1882  | 0.00000 | 19.1882  | 0.06593 | 0.04192 | — | 33.3281  |
| Home Improvement Superstore          | — | — | — | — | — | — | — | — | — | — | — | 33.1052  | 0.00000 | 33.1052  | 0.11375 | 0.07232 | — | 57.5008  |
| Strip Mall                           | — | — | — | — | — | — | — | — | — | — | — | 60.8759  | 0.00000 | 60.8759  | 0.20916 | 0.13299 | — | 105.736  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 16.0477  | 0.00000 | 16.0477  | 0.05514 | 0.03506 | — | 27.8735  |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 2,615.68 | 0.00000 | 2,615.68 | 8.98720 | 5.71425 | — | 4,543.20 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 9.85503  | 0.00000 | 9.85503  | 0.03386 | 0.02153 | — | 17.1173  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Apartments                           | — | — | — | — | — | — | — | — | — | — | — | 89.9677 | 0.00000 | 89.9677 | 0.30912 | 0.19654 | — | 156.266 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 32.3652 | 0.00000 | 32.3652 | 0.11120 | 0.07071 | — | 56.2155 |
| General Office Building              | — | — | — | — | — | — | — | — | — | — | — | 84.1414 | 0.00000 | 84.1414 | 0.28910 | 0.18382 | — | 146.146 |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Government Office Building           | — | — | — | — | — | — | — | — | — | — | — | 13.6707 | 0.00000 | 13.6707 | 0.04697 | 0.02987 | — | 23.7448 |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | 0.41513 | 0.00000 | 0.41513 | 0.00143 | 0.00091 | — | 0.72104 |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | 1.90926 | 0.00000 | 1.90926 | 0.00656 | 0.00417 | — | 3.31622 |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 4.58992 | 0.00000 | 4.58992 | 0.01577 | 0.01003 | — | 7.97230 |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 168.803 | 0.00000 | 168.803 | 0.57999 | 0.36877 | — | 293.196 |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 3.01232 | 0.00000 | 3.01232 | 0.01035 | 0.00658 | — | 5.23213 |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 1.26345 | 0.00000 | 1.26345 | 0.00434 | 0.00276 | — | 2.19450 |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 0.56541 | 0.00000 | 0.56541 | 0.00194 | 0.00124 | — | 0.98207 |



|                                   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|---------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | 1.02881 | 0.00000 | 1.02881 | 0.00353 | 0.00225 | — | 1.78695 |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.04990 | 0.00000 | 0.04990 | 0.00017 | 0.00011 | — | 0.08667 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.02495 | 0.00000 | 0.02495 | 0.00009 | 0.00005 | — | 0.04334 |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 3.17682 | 0.00000 | 3.17682 | 0.01092 | 0.00694 | — | 5.51786 |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 5.48094 | 0.00000 | 5.48094 | 0.01883 | 0.01197 | — | 9.51992 |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 10.0787 | 0.00000 | 10.0787 | 0.03463 | 0.02202 | — | 17.5058 |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 2.65688 | 0.00000 | 2.65688 | 0.00913 | 0.00580 | — | 4.61477 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 433.055 | 0.00000 | 433.055 | 1.48793 | 0.94606 | — | 752.179 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                                        |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Apartments<br>Low Rise                 | — | — | — | — | — | — | — | — | — | — | — | 314.836  | 0.00000 | 314.836  | 31.4667 | 0.00000 | — | 1,101.50 |
| Apartments<br>Mid Rise                 | — | — | — | — | — | — | — | — | — | — | — | 2,874.23 | 0.00000 | 2,874.23 | 287.269 | 0.00000 | — | 10,056.0 |
| Regional<br>Shopping<br>Center         | — | — | — | — | — | — | — | — | — | — | — | 698.858  | 0.00000 | 698.858  | 69.8483 | 0.00000 | — | 2,445.07 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 670.658  | 0.00000 | 670.658  | 67.0299 | 0.00000 | — | 2,346.41 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Government<br>Office<br>Building       | — | — | — | — | — | — | — | — | — | — | — | 97.4859  | 0.00000 | 97.4859  | 9.74337 | 0.00000 | — | 341.070  |
| Library                                | — | — | — | — | — | — | — | — | — | — | — | 18.6119  | 0.00000 | 18.6119  | 1.86019 | 0.00000 | — | 65.1166  |
| Place of<br>Worship                    | — | — | — | — | — | — | — | — | — | — | — | 529.819  | 0.00000 | 529.819  | 52.9535 | 0.00000 | — | 1,853.66 |
| General<br>Heavy<br>Industry           | — | — | — | — | — | — | — | — | — | — | — | 37.4907  | 0.00000 | 37.4907  | 3.74706 | 0.00000 | — | 131.167  |
| Unrefrigerated<br>Warehouse-No<br>Rail | — | — | — | — | — | — | — | — | — | — | — | 1,045.21 | 0.00000 | 1,045.21 | 104.465 | 0.00000 | — | 3,656.84 |
| City<br>Park                           | — | — | — | — | — | — | — | — | — | — | — | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 174.134  | 0.00000 | 174.134  | 17.4041 | 0.00000 | — | 609.236  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 185.484  | 0.00000 | 185.484  | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 18.5893  | 0.00000 | 18.5893  | 1.85794 | 0.00000 | — | 65.0378  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 4.71127  | 0.00000 | 4.71127  | 0.47087 | 0.00000 | — | 16.4831  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 1.56564  | 0.00000 | 1.56564  | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.76048  | 0.00000 | 0.76048  | 0.07601 | 0.00000 | — | 2.66065  |
| Free-Standing Discount Superstore    | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home Improvement Superstore          | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Strip Mall                           | — | — | — | — | — | — | — | — | — | — | — | 217.628  | 0.00000 | 217.628  | 21.7512 | 0.00000 | — | 761.408  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 185.173  | 0.00000 | 185.173  | 18.5074 | 0.00000 | — | 647.859  |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 8,607.02 | 0.00000 | 8,607.02 | 860.241 | 0.00000 | — | 30,113.0 |
| Daily, Winter (Max)                  | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |

|                                        |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Apartments<br>Low Rise                 | — | — | — | — | — | — | — | — | — | — | — | 314.836  | 0.00000 | 314.836  | 31.4667 | 0.00000 | — | 1,101.50 |
| Apartments<br>Mid Rise                 | — | — | — | — | — | — | — | — | — | — | — | 2,874.23 | 0.00000 | 2,874.23 | 287.269 | 0.00000 | — | 10,056.0 |
| Regional<br>Shopping<br>Center         | — | — | — | — | — | — | — | — | — | — | — | 698.858  | 0.00000 | 698.858  | 69.8483 | 0.00000 | — | 2,445.07 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 670.658  | 0.00000 | 670.658  | 67.0299 | 0.00000 | — | 2,346.41 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Government<br>Office<br>Building       | — | — | — | — | — | — | — | — | — | — | — | 97.4859  | 0.00000 | 97.4859  | 9.74337 | 0.00000 | — | 341.070  |
| Library                                | — | — | — | — | — | — | — | — | — | — | — | 18.6119  | 0.00000 | 18.6119  | 1.86019 | 0.00000 | — | 65.1166  |
| Place of<br>Worship                    | — | — | — | — | — | — | — | — | — | — | — | 529.819  | 0.00000 | 529.819  | 52.9535 | 0.00000 | — | 1,853.66 |
| General<br>Heavy<br>Industry           | — | — | — | — | — | — | — | — | — | — | — | 37.4907  | 0.00000 | 37.4907  | 3.74706 | 0.00000 | — | 131.167  |
| Unrefrigerated<br>Warehouse-No<br>Rail | — | — | — | — | — | — | — | — | — | — | — | 1,045.21 | 0.00000 | 1,045.21 | 104.465 | 0.00000 | — | 3,656.84 |
| City<br>Park                           | — | — | — | — | — | — | — | — | — | — | — | 0.90760  | 0.00000 | 0.90760  | 0.09071 | 0.00000 | — | 3.17539  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 174.134  | 0.00000 | 174.134  | 17.4041 | 0.00000 | — | 609.236  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 185.484  | 0.00000 | 185.484  | 18.5385 | 0.00000 | — | 648.947  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 18.5893  | 0.00000 | 18.5893  | 1.85794 | 0.00000 | — | 65.0378  |
| Quality Restaurant                   | — | — | — | — | — | — | — | — | — | — | — | 4.71127  | 0.00000 | 4.71127  | 0.47087 | 0.00000 | — | 16.4831  |
| User Defined Recreational            | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                      | — | — | — | — | — | — | — | — | — | — | — | 1.56564  | 0.00000 | 1.56564  | 0.15648 | 0.00000 | — | 5.47764  |
| Single Family Housing                | — | — | — | — | — | — | — | — | — | — | — | 0.76048  | 0.00000 | 0.76048  | 0.07601 | 0.00000 | — | 2.66065  |
| Free-Standing Discount Superstore    | — | — | — | — | — | — | — | — | — | — | — | 280.965  | 0.00000 | 280.965  | 28.0815 | 0.00000 | — | 983.002  |
| Home Improvement Superstore          | — | — | — | — | — | — | — | — | — | — | — | 1,249.90 | 0.00000 | 1,249.90 | 124.923 | 0.00000 | — | 4,372.98 |
| Strip Mall                           | — | — | — | — | — | — | — | — | — | — | — | 217.628  | 0.00000 | 217.628  | 21.7512 | 0.00000 | — | 761.408  |
| Supermarket                          | — | — | — | — | — | — | — | — | — | — | — | 185.173  | 0.00000 | 185.173  | 18.5074 | 0.00000 | — | 647.859  |
| Total                                | — | — | — | — | — | — | — | — | — | — | — | 8,607.02 | 0.00000 | 8,607.02 | 860.241 | 0.00000 | — | 30,113.0 |
| Annual                               | — | — | — | — | — | — | — | — | — | — | — | —        | —       | —        | —       | —       | — | —        |
| Apartments Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | 52.1247  | 0.00000 | 52.1247  | 5.20967 | 0.00000 | — | 182.367  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |         |         |         |         |         |   |          |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|---------|---|----------|
| Apartments                           | — | — | — | — | — | — | — | — | — | — | — | 475.862 | 0.00000 | 475.862 | 47.5607 | 0.00000 | — | 1,664.88 |
| Regional Shopping Center             | — | — | — | — | — | — | — | — | — | — | — | 115.704 | 0.00000 | 115.704 | 11.5642 | 0.00000 | — | 404.808  |
| General Office Building              | — | — | — | — | — | — | — | — | — | — | — | 111.035 | 0.00000 | 111.035 | 11.0976 | 0.00000 | — | 388.474  |
| Parking Lot                          | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  |
| Government Office Building           | — | — | — | — | — | — | — | — | — | — | — | 16.1399 | 0.00000 | 16.1399 | 1.61313 | 0.00000 | — | 56.4681  |
| Library                              | — | — | — | — | — | — | — | — | — | — | — | 3.08141 | 0.00000 | 3.08141 | 0.30798 | 0.00000 | — | 10.7808  |
| Place of Worship                     | — | — | — | — | — | — | — | — | — | — | — | 87.7176 | 0.00000 | 87.7176 | 8.76706 | 0.00000 | — | 306.894  |
| General Heavy Industry               | — | — | — | — | — | — | — | — | — | — | — | 6.20702 | 0.00000 | 6.20702 | 0.62037 | 0.00000 | — | 21.7163  |
| Unrefrigerated Warehouse-No Rail     | — | — | — | — | — | — | — | — | — | — | — | 173.047 | 0.00000 | 173.047 | 17.2954 | 0.00000 | — | 605.432  |
| City Park                            | — | — | — | — | — | — | — | — | — | — | — | 0.15026 | 0.00000 | 0.15026 | 0.01502 | 0.00000 | — | 0.52572  |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | — | 28.8299 | 0.00000 | 28.8299 | 2.88145 | 0.00000 | — | 100.866  |
| Health Club                          | — | — | — | — | — | — | — | — | — | — | — | 30.7091 | 0.00000 | 30.7091 | 3.06926 | 0.00000 | — | 107.441  |
| Motel                                | — | — | — | — | — | — | — | — | — | — | — | 3.07768 | 0.00000 | 3.07768 | 0.30760 | 0.00000 | — | 10.7678  |

|                                   |   |   |   |   |   |   |   |   |   |   |   |          |         |          |         |         |   |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---------|----------|---------|---------|---|----------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | 0.78000  | 0.00000 | 0.78000  | 0.07796 | 0.00000 | — | 2.72897  |
| User Defined Recreational         | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000 | 0.00000  | 0.00000 | 0.00000 | — | 0.00000  |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | 0.25921  | 0.00000 | 0.25921  | 0.02591 | 0.00000 | — | 0.90689  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | 0.12591  | 0.00000 | 0.12591  | 0.01258 | 0.00000 | — | 0.44050  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | 46.5170  | 0.00000 | 46.5170  | 4.64921 | 0.00000 | — | 162.747  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | 206.935  | 0.00000 | 206.935  | 20.6824 | 0.00000 | — | 723.996  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | 36.0309  | 0.00000 | 36.0309  | 3.60115 | 0.00000 | — | 126.060  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | 30.6576  | 0.00000 | 30.6576  | 3.06411 | 0.00000 | — | 107.260  |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | 1,424.99 | 0.00000 | 1,424.99 | 142.423 | 0.00000 | — | 4,985.56 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|--------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Apartments<br>Low Rise                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.57911 | 4.57911 |
| Apartments<br>Mid Rise                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 49.5863 | 49.5863 |
| Regional<br>Shopping<br>Center                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.92867 | 5.92867 |
| General<br>Office<br>Building                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.25418 | 3.25418 |
| Government<br>Office<br>Building                 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47302 | 0.47302 |
| Library                                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14486 | 0.14486 |
| Place of<br>Worship                              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.66623 | 0.66623 |
| General<br>Heavy<br>Industry                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14.6018 | 14.6018 |
| City<br>Park                                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 |
| Fast Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 43.8415 | 43.8415 |
| Health<br>Club                                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986 | 0.28986 |
| Motel                                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590 | 25.0590 |
| Quality<br>Restaurant                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14.9713 | 14.9713 |



|                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|---------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Condo/T                                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single<br>Family<br>Housing                 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01324  | 0.01324  |
| Free-Sta<br>nding<br>Discount<br>Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home<br>Improvement<br>Superstore           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Strip<br>Mall                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.39525  | 2.39525  |
| Superm<br>arket                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12,629.5 | 12,629.5 |
| Total                                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12,797.1 | 12,797.1 |
| Daily,<br>Winter<br>(Max)                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —        | —        |
| Apartme<br>nts<br>Low Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.57911  | 4.57911  |
| Apartme<br>nts<br>Mid Rise                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 49.5863  | 49.5863  |
| Regiona<br>l<br>Shoppin<br>g<br>Center      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.92867  | 5.92867  |
| General<br>Office<br>Building               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.25418  | 3.25418  |
| Govern<br>ment<br>Office<br>Building        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47302  | 0.47302  |

|                                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Library                                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14486  | 0.14486  |
| Place of<br>Worship                                 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.66623  | 0.66623  |
| General<br>Heavy<br>Industry                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14.6018  | 14.6018  |
| City<br>Park                                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000  | 0.00000  |
| Fast<br>Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 43.8415  | 43.8415  |
| Health<br>Club                                      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28986  | 0.28986  |
| Motel                                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 25.0590  | 25.0590  |
| Quality<br>Restaurant                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 14.9713  | 14.9713  |
| Condo/T<br>ownhou<br>se                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02013  | 0.02013  |
| Single<br>Family<br>Housing                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01324  | 0.01324  |
| Free-Sta<br>nding<br>Discount<br>Superstore         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75500  | 0.75500  |
| Home<br>Improvement<br>Superstore                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.00402  | 1.00402  |
| Strip<br>Mall                                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.39525  | 2.39525  |
| Superm<br>arket                                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12,629.5 | 12,629.5 |
| Total                                               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12,797.1 | 12,797.1 |

|                                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|--------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Annual                                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| Apartments<br>Low Rise                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.75812 | 0.75812 |
| Apartments<br>Mid Rise                           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 8.20957 | 8.20957 |
| Regional<br>Shopping<br>Center                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.98156 | 0.98156 |
| General<br>Office<br>Building                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.53877 | 0.53877 |
| Government<br>Office<br>Building                 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07831 | 0.07831 |
| Library                                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.02398 | 0.02398 |
| Place of<br>Worship                              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.11030 | 0.11030 |
| General<br>Heavy<br>Industry                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.41749 | 2.41749 |
| City<br>Park                                     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00000 | 0.00000 |
| Fast Food<br>Restaurant<br>with<br>Drive<br>Thru | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.25846 | 7.25846 |
| Health<br>Club                                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.04799 | 0.04799 |
| Motel                                            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4.14880 | 4.14880 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |          |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|
| Quality Restaurant                | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.47867  | 2.47867  |
| Condo/Townhouse                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00333  | 0.00333  |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00219  | 0.00219  |
| Free-Standing Discount Superstore | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.12500  | 0.12500  |
| Home Improvement Superstore       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.16623  | 0.16623  |
| Strip Mall                        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.39656  | 0.39656  |
| Supermarket                       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,090.95 | 2,090.95 |
| Total                             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,118.70 | 2,118.70 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year  | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year    |
|---------------------|---------------|----------------|--------------|-------------|-------------|--------------|------------|-------------|
| Total all Land Uses | 302,809       | 302,809        | 302,809      | 110,525,285 | 1,740,370   | 1,740,370    | 1,740,370  | 635,235,050 |

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

| Land Use            | Hearth Type        | Unmitigated (number) | Mitigated (number) |
|---------------------|--------------------|----------------------|--------------------|
| Apartments Low Rise | Wood Fireplaces    | 0                    | 0                  |
| Apartments Low Rise | Gas Fireplaces     | 0                    | 0                  |
| Apartments Low Rise | Propane Fireplaces | 0                    | 0                  |



|                          |                           |       |       |
|--------------------------|---------------------------|-------|-------|
| Apartments Low Rise      | Electric Fireplaces       | 0     | 0     |
| Apartments Low Rise      | No Fireplaces             | 48    | 48    |
| Apartments Low Rise      | Conventional Wood Stoves  | 0     | 0     |
| Apartments Low Rise      | Catalytic Wood Stoves     | 0     | 0     |
| Apartments Low Rise      | Non-Catalytic Wood Stoves | 0     | 0     |
| Apartments Low Rise      | Pellet Wood Stoves        | 0     | 0     |
| Apartments Mid Rise      | Wood Fireplaces           | 0     | 0     |
| Apartments Mid Rise      | Gas Fireplaces            | 0     | 0     |
| Apartments Mid Rise      | Propane Fireplaces        | 0     | 0     |
| Apartments Mid Rise      | Electric Fireplaces       | 0     | 0     |
| Apartments Mid Rise      | No Fireplaces             | 7,212 | 7,212 |
| Apartments Mid Rise      | Conventional Wood Stoves  | 0     | 0     |
| Apartments Mid Rise      | Catalytic Wood Stoves     | 0     | 0     |
| Apartments Mid Rise      | Non-Catalytic Wood Stoves | 0     | 0     |
| Apartments Mid Rise      | Pellet Wood Stoves        | 0     | 0     |
| Regional Shopping Center | Wood Fireplaces           | 0     | 0     |
| Regional Shopping Center | Gas Fireplaces            | 0     | 0     |
| Regional Shopping Center | Propane Fireplaces        | 0     | 0     |
| Regional Shopping Center | Electric Fireplaces       | 0     | 0     |
| Regional Shopping Center | No Fireplaces             | 0     | 0     |
| Regional Shopping Center | Conventional Wood Stoves  | 0     | 0     |
| Regional Shopping Center | Catalytic Wood Stoves     | 0     | 0     |
| Regional Shopping Center | Non-Catalytic Wood Stoves | 0     | 0     |
| Regional Shopping Center | Pellet Wood Stoves        | 0     | 0     |
| General Office Building  | Wood Fireplaces           | 0     | 0     |
| General Office Building  | Gas Fireplaces            | 0     | 0     |
| General Office Building  | Propane Fireplaces        | 0     | 0     |
| General Office Building  | Electric Fireplaces       | 0     | 0     |

|                            |                           |   |   |
|----------------------------|---------------------------|---|---|
| General Office Building    | No Fireplaces             | 0 | 0 |
| General Office Building    | Conventional Wood Stoves  | 0 | 0 |
| General Office Building    | Catalytic Wood Stoves     | 0 | 0 |
| General Office Building    | Non-Catalytic Wood Stoves | 0 | 0 |
| General Office Building    | Pellet Wood Stoves        | 0 | 0 |
| Parking Lot                | Wood Fireplaces           | 0 | 0 |
| Parking Lot                | Gas Fireplaces            | 0 | 0 |
| Parking Lot                | Propane Fireplaces        | 0 | 0 |
| Parking Lot                | Electric Fireplaces       | 0 | 0 |
| Parking Lot                | No Fireplaces             | 0 | 0 |
| Parking Lot                | Conventional Wood Stoves  | 0 | 0 |
| Parking Lot                | Catalytic Wood Stoves     | 0 | 0 |
| Parking Lot                | Non-Catalytic Wood Stoves | 0 | 0 |
| Parking Lot                | Pellet Wood Stoves        | 0 | 0 |
| General Office Building    | Wood Fireplaces           | 0 | 0 |
| General Office Building    | Gas Fireplaces            | 0 | 0 |
| General Office Building    | Propane Fireplaces        | 0 | 0 |
| General Office Building    | Electric Fireplaces       | 0 | 0 |
| General Office Building    | No Fireplaces             | 0 | 0 |
| General Office Building    | Conventional Wood Stoves  | 0 | 0 |
| General Office Building    | Catalytic Wood Stoves     | 0 | 0 |
| General Office Building    | Non-Catalytic Wood Stoves | 0 | 0 |
| General Office Building    | Pellet Wood Stoves        | 0 | 0 |
| Government Office Building | Wood Fireplaces           | 0 | 0 |
| Government Office Building | Gas Fireplaces            | 0 | 0 |
| Government Office Building | Propane Fireplaces        | 0 | 0 |
| Government Office Building | Electric Fireplaces       | 0 | 0 |
| Government Office Building | No Fireplaces             | 0 | 0 |

|                            |                           |   |   |
|----------------------------|---------------------------|---|---|
| Government Office Building | Conventional Wood Stoves  | 0 | 0 |
| Government Office Building | Catalytic Wood Stoves     | 0 | 0 |
| Government Office Building | Non-Catalytic Wood Stoves | 0 | 0 |
| Government Office Building | Pellet Wood Stoves        | 0 | 0 |
| Library                    | Wood Fireplaces           | 0 | 0 |
| Library                    | Gas Fireplaces            | 0 | 0 |
| Library                    | Propane Fireplaces        | 0 | 0 |
| Library                    | Electric Fireplaces       | 0 | 0 |
| Library                    | No Fireplaces             | 0 | 0 |
| Library                    | Conventional Wood Stoves  | 0 | 0 |
| Library                    | Catalytic Wood Stoves     | 0 | 0 |
| Library                    | Non-Catalytic Wood Stoves | 0 | 0 |
| Library                    | Pellet Wood Stoves        | 0 | 0 |
| Place of Worship           | Wood Fireplaces           | 0 | 0 |
| Place of Worship           | Gas Fireplaces            | 0 | 0 |
| Place of Worship           | Propane Fireplaces        | 0 | 0 |
| Place of Worship           | Electric Fireplaces       | 0 | 0 |
| Place of Worship           | No Fireplaces             | 0 | 0 |
| Place of Worship           | Conventional Wood Stoves  | 0 | 0 |
| Place of Worship           | Catalytic Wood Stoves     | 0 | 0 |
| Place of Worship           | Non-Catalytic Wood Stoves | 0 | 0 |
| Place of Worship           | Pellet Wood Stoves        | 0 | 0 |
| General Heavy Industry     | Wood Fireplaces           | 0 | 0 |
| General Heavy Industry     | Gas Fireplaces            | 0 | 0 |
| General Heavy Industry     | Propane Fireplaces        | 0 | 0 |
| General Heavy Industry     | Electric Fireplaces       | 0 | 0 |
| General Heavy Industry     | No Fireplaces             | 0 | 0 |
| General Heavy Industry     | Conventional Wood Stoves  | 0 | 0 |

|                                  |                           |   |   |
|----------------------------------|---------------------------|---|---|
| General Heavy Industry           | Catalytic Wood Stoves     | 0 | 0 |
| General Heavy Industry           | Non-Catalytic Wood Stoves | 0 | 0 |
| General Heavy Industry           | Pellet Wood Stoves        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Wood Fireplaces           | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Gas Fireplaces            | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Propane Fireplaces        | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Electric Fireplaces       | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | No Fireplaces             | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Conventional Wood Stoves  | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Catalytic Wood Stoves     | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Non-Catalytic Wood Stoves | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | Pellet Wood Stoves        | 0 | 0 |
| Parking Lot                      | Wood Fireplaces           | 0 | 0 |
| Parking Lot                      | Gas Fireplaces            | 0 | 0 |
| Parking Lot                      | Propane Fireplaces        | 0 | 0 |
| Parking Lot                      | Electric Fireplaces       | 0 | 0 |
| Parking Lot                      | No Fireplaces             | 0 | 0 |
| Parking Lot                      | Conventional Wood Stoves  | 0 | 0 |
| Parking Lot                      | Catalytic Wood Stoves     | 0 | 0 |
| Parking Lot                      | Non-Catalytic Wood Stoves | 0 | 0 |
| Parking Lot                      | Pellet Wood Stoves        | 0 | 0 |
| City Park                        | Wood Fireplaces           | 0 | 0 |
| City Park                        | Gas Fireplaces            | 0 | 0 |
| City Park                        | Propane Fireplaces        | 0 | 0 |
| City Park                        | Electric Fireplaces       | 0 | 0 |
| City Park                        | No Fireplaces             | 0 | 0 |
| City Park                        | Conventional Wood Stoves  | 0 | 0 |
| City Park                        | Catalytic Wood Stoves     | 0 | 0 |

|                                      |                           |   |   |
|--------------------------------------|---------------------------|---|---|
| City Park                            | Non-Catalytic Wood Stoves | 0 | 0 |
| City Park                            | Pellet Wood Stoves        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Wood Fireplaces           | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Gas Fireplaces            | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Propane Fireplaces        | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Electric Fireplaces       | 0 | 0 |
| Fast Food Restaurant with Drive Thru | No Fireplaces             | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Conventional Wood Stoves  | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Catalytic Wood Stoves     | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Non-Catalytic Wood Stoves | 0 | 0 |
| Fast Food Restaurant with Drive Thru | Pellet Wood Stoves        | 0 | 0 |
| Health Club                          | Wood Fireplaces           | 0 | 0 |
| Health Club                          | Gas Fireplaces            | 0 | 0 |
| Health Club                          | Propane Fireplaces        | 0 | 0 |
| Health Club                          | Electric Fireplaces       | 0 | 0 |
| Health Club                          | No Fireplaces             | 0 | 0 |
| Health Club                          | Conventional Wood Stoves  | 0 | 0 |
| Health Club                          | Catalytic Wood Stoves     | 0 | 0 |
| Health Club                          | Non-Catalytic Wood Stoves | 0 | 0 |
| Health Club                          | Pellet Wood Stoves        | 0 | 0 |
| Motel                                | Wood Fireplaces           | 0 | 0 |
| Motel                                | Gas Fireplaces            | 0 | 0 |
| Motel                                | Propane Fireplaces        | 0 | 0 |
| Motel                                | Electric Fireplaces       | 0 | 0 |
| Motel                                | No Fireplaces             | 0 | 0 |
| Motel                                | Conventional Wood Stoves  | 0 | 0 |
| Motel                                | Catalytic Wood Stoves     | 0 | 0 |
| Motel                                | Non-Catalytic Wood Stoves | 0 | 0 |

|                           |                           |     |     |
|---------------------------|---------------------------|-----|-----|
| Motel                     | Pellet Wood Stoves        | 0   | 0   |
| Quality Restaurant        | Wood Fireplaces           | 0   | 0   |
| Quality Restaurant        | Gas Fireplaces            | 0   | 0   |
| Quality Restaurant        | Propane Fireplaces        | 0   | 0   |
| Quality Restaurant        | Electric Fireplaces       | 0   | 0   |
| Quality Restaurant        | No Fireplaces             | 0   | 0   |
| Quality Restaurant        | Conventional Wood Stoves  | 0   | 0   |
| Quality Restaurant        | Catalytic Wood Stoves     | 0   | 0   |
| Quality Restaurant        | Non-Catalytic Wood Stoves | 0   | 0   |
| Quality Restaurant        | Pellet Wood Stoves        | 0   | 0   |
| User Defined Recreational | Wood Fireplaces           | 0   | 0   |
| User Defined Recreational | Gas Fireplaces            | 0   | 0   |
| User Defined Recreational | Propane Fireplaces        | 0   | 0   |
| User Defined Recreational | Electric Fireplaces       | 0   | 0   |
| User Defined Recreational | No Fireplaces             | 0   | 0   |
| User Defined Recreational | Conventional Wood Stoves  | 0   | 0   |
| User Defined Recreational | Catalytic Wood Stoves     | 0   | 0   |
| User Defined Recreational | Non-Catalytic Wood Stoves | 0   | 0   |
| User Defined Recreational | Pellet Wood Stoves        | 0   | 0   |
| Apartments Low Rise       | Wood Fireplaces           | 0   | 0   |
| Apartments Low Rise       | Gas Fireplaces            | 0   | 0   |
| Apartments Low Rise       | Propane Fireplaces        | 0   | 0   |
| Apartments Low Rise       | Electric Fireplaces       | 0   | 0   |
| Apartments Low Rise       | No Fireplaces             | 742 | 742 |
| Apartments Low Rise       | Conventional Wood Stoves  | 0   | 0   |
| Apartments Low Rise       | Catalytic Wood Stoves     | 0   | 0   |
| Apartments Low Rise       | Non-Catalytic Wood Stoves | 0   | 0   |
| Apartments Low Rise       | Pellet Wood Stoves        | 0   | 0   |

|                                   |                           |   |   |
|-----------------------------------|---------------------------|---|---|
| Condo/Townhouse                   | Wood Fireplaces           | 0 | 0 |
| Condo/Townhouse                   | Gas Fireplaces            | 0 | 0 |
| Condo/Townhouse                   | Propane Fireplaces        | 0 | 0 |
| Condo/Townhouse                   | Electric Fireplaces       | 0 | 0 |
| Condo/Townhouse                   | No Fireplaces             | 4 | 4 |
| Condo/Townhouse                   | Conventional Wood Stoves  | 0 | 0 |
| Condo/Townhouse                   | Catalytic Wood Stoves     | 0 | 0 |
| Condo/Townhouse                   | Non-Catalytic Wood Stoves | 0 | 0 |
| Condo/Townhouse                   | Pellet Wood Stoves        | 0 | 0 |
| Single Family Housing             | Wood Fireplaces           | 0 | 0 |
| Single Family Housing             | Gas Fireplaces            | 0 | 0 |
| Single Family Housing             | Propane Fireplaces        | 0 | 0 |
| Single Family Housing             | Electric Fireplaces       | 0 | 0 |
| Single Family Housing             | No Fireplaces             | 2 | 2 |
| Single Family Housing             | Conventional Wood Stoves  | 0 | 0 |
| Single Family Housing             | Catalytic Wood Stoves     | 0 | 0 |
| Single Family Housing             | Non-Catalytic Wood Stoves | 0 | 0 |
| Single Family Housing             | Pellet Wood Stoves        | 0 | 0 |
| Free-Standing Discount Superstore | Wood Fireplaces           | 0 | 0 |
| Free-Standing Discount Superstore | Gas Fireplaces            | 0 | 0 |
| Free-Standing Discount Superstore | Propane Fireplaces        | 0 | 0 |
| Free-Standing Discount Superstore | Electric Fireplaces       | 0 | 0 |
| Free-Standing Discount Superstore | No Fireplaces             | 0 | 0 |
| Free-Standing Discount Superstore | Conventional Wood Stoves  | 0 | 0 |
| Free-Standing Discount Superstore | Catalytic Wood Stoves     | 0 | 0 |
| Free-Standing Discount Superstore | Non-Catalytic Wood Stoves | 0 | 0 |
| Free-Standing Discount Superstore | Pellet Wood Stoves        | 0 | 0 |
| Home Improvement Superstore       | Wood Fireplaces           | 0 | 0 |

|                             |                           |   |   |
|-----------------------------|---------------------------|---|---|
| Home Improvement Superstore | Gas Fireplaces            | 0 | 0 |
| Home Improvement Superstore | Propane Fireplaces        | 0 | 0 |
| Home Improvement Superstore | Electric Fireplaces       | 0 | 0 |
| Home Improvement Superstore | No Fireplaces             | 0 | 0 |
| Home Improvement Superstore | Conventional Wood Stoves  | 0 | 0 |
| Home Improvement Superstore | Catalytic Wood Stoves     | 0 | 0 |
| Home Improvement Superstore | Non-Catalytic Wood Stoves | 0 | 0 |
| Home Improvement Superstore | Pellet Wood Stoves        | 0 | 0 |
| Regional Shopping Center    | Wood Fireplaces           | 0 | 0 |
| Regional Shopping Center    | Gas Fireplaces            | 0 | 0 |
| Regional Shopping Center    | Propane Fireplaces        | 0 | 0 |
| Regional Shopping Center    | Electric Fireplaces       | 0 | 0 |
| Regional Shopping Center    | No Fireplaces             | 0 | 0 |
| Regional Shopping Center    | Conventional Wood Stoves  | 0 | 0 |
| Regional Shopping Center    | Catalytic Wood Stoves     | 0 | 0 |
| Regional Shopping Center    | Non-Catalytic Wood Stoves | 0 | 0 |
| Regional Shopping Center    | Pellet Wood Stoves        | 0 | 0 |
| Strip Mall                  | Wood Fireplaces           | 0 | 0 |
| Strip Mall                  | Gas Fireplaces            | 0 | 0 |
| Strip Mall                  | Propane Fireplaces        | 0 | 0 |
| Strip Mall                  | Electric Fireplaces       | 0 | 0 |
| Strip Mall                  | No Fireplaces             | 0 | 0 |
| Strip Mall                  | Conventional Wood Stoves  | 0 | 0 |
| Strip Mall                  | Catalytic Wood Stoves     | 0 | 0 |
| Strip Mall                  | Non-Catalytic Wood Stoves | 0 | 0 |
| Strip Mall                  | Pellet Wood Stoves        | 0 | 0 |
| Supermarket                 | Wood Fireplaces           | 0 | 0 |
| Supermarket                 | Gas Fireplaces            | 0 | 0 |



|             |                           |   |   |
|-------------|---------------------------|---|---|
| Supermarket | Propane Fireplaces        | 0 | 0 |
| Supermarket | Electric Fireplaces       | 0 | 0 |
| Supermarket | No Fireplaces             | 0 | 0 |
| Supermarket | Conventional Wood Stoves  | 0 | 0 |
| Supermarket | Catalytic Wood Stoves     | 0 | 0 |
| Supermarket | Non-Catalytic Wood Stoves | 0 | 0 |
| Supermarket | Pellet Wood Stoves        | 0 | 0 |

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 15,324,271                               | 5,108,090                                | 8,980,226                                    | 2,993,409                                    | 427,507                     |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value   |
|-------------|--------|---------|
| Snow Days   | day/yr | 0.00000 |
| Summer Days | day/yr | 250.000 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                 | Electricity (kWh/yr) | CO2     | CH4    | N2O    | Natural Gas (kBTU/yr) |
|--------------------------|----------------------|---------|--------|--------|-----------------------|
| Apartments Low Rise      | 237,521              | 0.00000 | 0.0000 | 0.0000 | 611,332               |
| Apartments Mid Rise      | 35,702,388           | 0.00000 | 0.0000 | 0.0000 | 96,409,796            |
| Regional Shopping Center | 10,649,630           | 0.00000 | 0.0000 | 0.0000 | 10,016,605            |
| General Office Building  | 18,113,485           | 0.00000 | 0.0000 | 0.0000 | 26,173,450            |
| Parking Lot              | 6,052,901            | 0.00000 | 0.0000 | 0.0000 | 0.00000               |

|                                      |            |         |        |        |            |
|--------------------------------------|------------|---------|--------|--------|------------|
| General Office Building              | 12,694,714 | 0.00000 | 0.0000 | 0.0000 | 18,343,486 |
| Government Office Building           | 4,478,201  | 0.00000 | 0.0000 | 0.0000 | 6,470,868  |
| Library                              | 337,161    | 0.00000 | 0.0000 | 0.0000 | 1,482,970  |
| Place of Worship                     | 1,550,670  | 0.00000 | 0.0000 | 0.0000 | 6,820,475  |
| General Heavy Industry               | 504,348    | 0.00000 | 0.0000 | 0.0000 | 2,218,325  |
| Unrefrigerated Warehouse-No Rail     | 17,409,548 | 0.00000 | 0.0000 | 0.0000 | 6,810,374  |
| Parking Lot                          | 188,708    | 0.00000 | 0.0000 | 0.0000 | 0.00000    |
| City Park                            | 0.00000    | 0.00000 | 0.0000 | 0.0000 | 0.00000    |
| Fast Food Restaurant with Drive Thru | 1,095,479  | 0.00000 | 0.0000 | 0.0000 | 3,375,050  |
| Health Club                          | 542,865    | 0.00000 | 0.0000 | 0.0000 | 2,387,740  |
| Motel                                | 99,553.6   | 0.00000 | 0.0000 | 0.0000 | 753,765    |
| Quality Restaurant                   | 374,092    | 0.00000 | 0.0000 | 0.0000 | 1,152,535  |
| User Defined Recreational            | 0.00000    | 0.00000 | 0.0000 | 0.0000 | 0.00000    |
| Apartments Low Rise                  | 3,671,674  | 0.00000 | 0.0000 | 0.0000 | 9,450,175  |
| Condo/Townhouse                      | 24,910.8   | 0.00000 | 0.0000 | 0.0000 | 70,041.5   |
| Single Family Housing                | 17,816.4   | 0.00000 | 0.0000 | 0.0000 | 78,662.3   |
| Free-Standing Discount Superstore    | 1,134,797  | 0.00000 | 0.0000 | 0.0000 | 1,067,344  |
| Home Improvement Superstore          | 1,957,854  | 0.00000 | 0.0000 | 0.0000 | 1,841,477  |
| Regional Shopping Center             | 911,408    | 0.00000 | 0.0000 | 0.0000 | 857,233    |
| Strip Mall                           | 3,600,166  | 0.00000 | 0.0000 | 0.0000 | 3,386,168  |
| Supermarket                          | 2,890,045  | 0.00000 | 0.0000 | 0.0000 | 1,225,572  |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------|-------------------------|--------------------------|
|----------|-------------------------|--------------------------|

|                                      |             |            |
|--------------------------------------|-------------|------------|
| Apartments Low Rise                  | 1,692,432   | 438,698    |
| Apartments Mid Rise                  | 254,287,908 | 30,915,433 |
| Regional Shopping Center             | 84,266,382  | 0.00000    |
| General Office Building              | 139,824,917 | 0.00000    |
| Parking Lot                          | 0.00000     | 0.00000    |
| General Office Building              | 97,995,279  | 0.00000    |
| Government Office Building           | 38,639,309  | 0.00000    |
| Library                              | 1,173,334   | 0.00000    |
| Place of Worship                     | 5,396,398   | 0.00000    |
| General Heavy Industry               | 12,973,125  | 0.00000    |
| Unrefrigerated Warehouse-No Rail     | 477,110,375 | 0.00000    |
| Parking Lot                          | 0.00000     | 0.00000    |
| City Park                            | 0.00000     | 0.00000    |
| Fast Food Restaurant with Drive Thru | 8,514,121   | 0.00000    |
| Health Club                          | 3,571,063   | 0.00000    |
| Motel                                | 1,598,107   | 0.00000    |
| Quality Restaurant                   | 2,907,853   | 0.00000    |
| User Defined Recreational            | 0.00000     | 0.00000    |
| Apartments Low Rise                  | 26,162,178  | 0.00000    |
| Condo/Townhouse                      | 141,036     | 0.00000    |
| Single Family Housing                | 70,518.0    | 399,881    |
| Free-Standing Discount Superstore    | 8,979,071   | 0.00000    |
| Home Improvement Superstore          | 15,491,527  | 0.00000    |
| Regional Shopping Center             | 7,211,701   | 0.00000    |
| Strip Mall                           | 28,486,810  | 0.00000    |
| Supermarket                          | 7,509,500   | 0.00000    |

### 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                             | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------------|------------------|-------------------------|
| Apartments Low Rise                  | 35.3887          | 0.00000                 |
| Apartments Mid Rise                  | 5,333.13         | 0.00000                 |
| Regional Shopping Center             | 1,194.50         | 0.00000                 |
| General Office Building              | 731.640          | 0.00000                 |
| Parking Lot                          | 0.00000          | 0.00000                 |
| General Office Building              | 512.765          | 0.00000                 |
| Government Office Building           | 180.885          | 0.00000                 |
| Library                              | 34.5343          | 0.00000                 |
| Place of Worship                     | 983.079          | 0.00000                 |
| General Heavy Industry               | 69.5640          | 0.00000                 |
| Unrefrigerated Warehouse-No Rail     | 1,939.39         | 0.00000                 |
| Parking Lot                          | 0.00000          | 0.00000                 |
| City Park                            | 1.68405          | 0.00000                 |
| Fast Food Restaurant with Drive Thru | 323.106          | 0.00000                 |
| Health Club                          | 344.166          | 0.00000                 |
| Motel                                | 34.4925          | 0.00000                 |
| Quality Restaurant                   | 8.74175          | 0.00000                 |
| User Defined Recreational            | 0.00000          | 0.00000                 |
| Apartments Low Rise                  | 548.789          | 0.00000                 |
| Condo/Townhouse                      | 2.90504          | 0.00000                 |
| Single Family Housing                | 1.41106          | 0.00000                 |
| Free-Standing Discount Superstore    | 521.331          | 0.00000                 |
| Home Improvement Superstore          | 2,319.19         | 0.00000                 |
| Regional Shopping Center             | 102.228          | 0.00000                 |
| Strip Mall                           | 403.809          | 0.00000                 |
| Supermarket                          | 343.589          | 0.00000                 |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use                   | Equipment Type                                          | Refrigerant | GWP      | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Served |
|----------------------------|---------------------------------------------------------|-------------|----------|---------------|----------------------|-------------------|--------------|
| Apartments Low Rise        | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088.00 | 0.00225       | 2.50000              | 2.50000           | 10.00000     |
| Apartments Low Rise        | Household refrigerators and/or freezers                 | R-134a      | 1,430.00 | 0.11538       | 0.60000              | 0.00000           | 1.000000     |
| Apartments Mid Rise        | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088.00 | 0.00225       | 2.50000              | 2.50000           | 10.00000     |
| Apartments Mid Rise        | Household refrigerators and/or freezers                 | R-134a      | 1,430.00 | 0.11538       | 0.60000              | 0.00000           | 1.000000     |
| Regional Shopping Center   | Other commercial A/C and heat pumps                     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000      |
| Regional Shopping Center   | Stand-alone retail refrigerators and freezers           | R-134a      | 1,430.00 | 0.03750       | 1.000000             | 0.00000           | 1.000000     |
| General Office Building    | Household refrigerators and/or freezers                 | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000     |
| General Office Building    | Other commercial A/C and heat pumps                     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000      |
| General Office Building    | Household refrigerators and/or freezers                 | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000     |
| General Office Building    | Other commercial A/C and heat pumps                     | R-410A      | 2,088.00 | 0.00180       | 4.00000              | 4.00000           | 18.0000      |
| Government Office Building | Household refrigerators and/or freezers                 | R-134a      | 1,430.00 | 0.01679       | 0.60000              | 0.00000           | 1.000000     |

|                                      |                                               |        |          |         |          |         |          |
|--------------------------------------|-----------------------------------------------|--------|----------|---------|----------|---------|----------|
| Government Office Building           | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Library                              | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.01679 | 0.60000  | 0.00000 | 1.000000 |
| Library                              | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Library                              | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.00004 | 1.000000 | 0.00000 | 1.000000 |
| Library                              | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Place of Worship                     | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.01679 | 0.60000  | 0.00000 | 1.000000 |
| Place of Worship                     | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Place of Worship                     | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.00004 | 1.000000 | 0.00000 | 1.000000 |
| Place of Worship                     | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| General Heavy Industry               | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.30000 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| City Park                            | Stand-alone retail refrigerators and freezers | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers       | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps           | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers            | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |

|                       |                                                         |        |          |         |          |         |          |
|-----------------------|---------------------------------------------------------|--------|----------|---------|----------|---------|----------|
| Health Club           | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Health Club           | Stand-alone retail refrigerators and freezers           | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Motel                 | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Motel                 | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Motel                 | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Quality Restaurant    | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.00000 | 0.60000  | 0.00000 | 1.000000 |
| Quality Restaurant    | Other commercial A/C and heat pumps                     | R-410A | 2,088.00 | 1.80000 | 4.00000  | 4.00000 | 18.0000  |
| Quality Restaurant    | Walk-in refrigerators and freezers                      | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Apartments Low Rise   | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |
| Apartments Low Rise   | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |
| Condo/Townhouse       | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |
| Condo/Townhouse       | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |
| Single Family Housing | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088.00 | 0.00225 | 2.50000  | 2.50000 | 10.00000 |
| Single Family Housing | Household refrigerators and/or freezers                 | R-134a | 1,430.00 | 0.11538 | 0.60000  | 0.00000 | 1.000000 |

|                                   |                                                |        |          |         |          |         |          |
|-----------------------------------|------------------------------------------------|--------|----------|---------|----------|---------|----------|
| Free-Standing Discount Superstore | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Free-Standing Discount Superstore | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Free-Standing Discount Superstore | Walk-in refrigerators and freezers             | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Home Improvement Superstore       | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Home Improvement Superstore       | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Regional Shopping Center          | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Regional Shopping Center          | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Strip Mall                        | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Strip Mall                        | Stand-alone retail refrigerators and freezers  | R-134a | 1,430.00 | 0.03750 | 1.000000 | 0.00000 | 1.000000 |
| Strip Mall                        | Walk-in refrigerators and freezers             | R-404A | 3,922.00 | 0.00040 | 7.50000  | 7.50000 | 20.0000  |
| Supermarket                       | Other commercial A/C and heat pumps            | R-410A | 2,088.00 | 0.00180 | 4.00000  | 4.00000 | 18.0000  |
| Supermarket                       | Supermarket refrigeration and condensing units | R-404A | 3,922.00 | 26.5200 | 16.5000  | 16.5000 | 18.0000  |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

## 5.16. Stationary Sources



5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                        |
|------------------------------|-----------------------------|-----------------------------|
| Temperature and Extreme Heat | 21.7600                     | annual days of extreme heat |

|                       |         |                                            |
|-----------------------|---------|--------------------------------------------|
| Extreme Precipitation | 6.35000 | annual days with precipitation above 20 mm |
| Sea Level Rise        | —       | meters of inundation depth                 |
| Wildfire              | 0.00000 | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|----------------|----------------|-------------------|-------------------------|---------------------|
|----------------|----------------|-------------------|-------------------------|---------------------|

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Temperature and Extreme Heat | 1   | 1   | 1   | 2   |
| Extreme Precipitation        | 2   | 1   | 1   | 3   |
| Sea Level Rise               | N/A | N/A | N/A | N/A |
| Wildfire                     | 1   | 1   | 1   | 2   |
| Flooding                     | 1   | 1   | 1   | 2   |
| Drought                      | 1   | 1   | 1   | 2   |
| Snowpack Reduction           | N/A | N/A | N/A | N/A |
| Air Quality Degradation      | 1   | 1   | 1   | 2   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58.2327                         |
| AQ-PM               | 37.4362                         |
| AQ-DPM              | 27.4549                         |
| Drinking Water      | 61.0716                         |
| Lead Risk Housing   | 92.2495                         |
| Pesticides          | 7.24138                         |
| Toxic Releases      | 21.8055                         |
| Traffic             | 47.0125                         |

|                                 |         |
|---------------------------------|---------|
| Effect Indicators               | —       |
| CleanUp Sites                   | 80.9444 |
| Groundwater                     | 99.2197 |
| Haz Waste Facilities/Generators | 61.5751 |
| Impaired Water Bodies           | 0.00000 |
| Solid Waste                     | 52.8981 |
| Sensitive Population            | —       |
| Asthma                          | 93.3699 |
| Cardio-vascular                 | 69.1550 |
| Low Birth Weights               | 79.4072 |
| Socioeconomic Factor Indicators | —       |
| Education                       | 62.8575 |
| Housing                         | 73.4094 |
| Linguistic                      | 39.2069 |
| Poverty                         | 91.6080 |
| Unemployment                    | 65.6299 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 10.16296677                     |
| Employed               | 6.274862056                     |
| Median HI              | 6.672654947                     |
| Education              | —                               |
| Bachelor's or higher   | 19.73566021                     |
| High school enrollment | 12.79353266                     |
| Preschool enrollment   | 42.65366354                     |

|                                              |             |
|----------------------------------------------|-------------|
| Transportation                               | —           |
| Auto Access                                  | 24.89413576 |
| Active commuting                             | 74.06646991 |
| Social                                       | —           |
| 2-parent households                          | 39.00936738 |
| Voting                                       | 13.02450917 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 41.6527653  |
| Park access                                  | 47.42717824 |
| Retail density                               | 38.27794174 |
| Supermarket access                           | 72.19299371 |
| Tree canopy                                  | 82.34312845 |
| Housing                                      | —           |
| Homeownership                                | 23.13614782 |
| Housing habitability                         | 24.91979982 |
| Low-inc homeowner severe housing cost burden | 13.20415758 |
| Low-inc renter severe housing cost burden    | 43.7957141  |
| Uncrowded housing                            | 25.445913   |
| Health Outcomes                              | —           |
| Insured adults                               | 37.80315668 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 5.9         |
| High Blood Pressure                          | 0.0         |
| Cancer (excluding skin)                      | 0.0         |
| Asthma                                       | 0.0         |
| Coronary Heart Disease                       | 0.0         |
| Chronic Obstructive Pulmonary Disease        | 0.0         |
| Diagnosed Diabetes                           | 0.0         |

|                                       |      |
|---------------------------------------|------|
| Life Expectancy at Birth              | 5.5  |
| Cognitively Disabled                  | 4.0  |
| Physically Disabled                   | 5.6  |
| Heart Attack ER Admissions            | 16.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 96.7 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 16.3 |
| Elderly                               | 67.6 |
| English Speaking                      | 43.4 |
| Foreign-born                          | 30.0 |
| Outdoor Workers                       | 48.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 51.3 |
| Traffic Density                       | 47.2 |
| Traffic Access                        | 66.1 |
| Other Indices                         | —    |
| Hardship                              | 80.5 |

|                        |     |
|------------------------|-----|
| Other Decision Support | —   |
| 2016 Voting            | 6.4 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 83.0000                         |
| Healthy Places Index Score for Project Location (b)                                 | 13.0000                         |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

### 8.1. Justifications

| Screen                               | Justification                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| Characteristics: Utility Information | Implementation of RPS by 2045.                                                             |
| Land Use                             | Proposed project and existing land uses to remain per Development Assumptions spreadsheet. |

## 8.2. Project Characteristics

### 8.2.2. Utility Information

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| CO2             | lb/MWh | 374.840       | 0.00000   |
| CH4             | lb/MWh | 0.01290       | 0.00000   |
| N2O             | lb/MWh | 0.00170       | 0.00000   |

## 8.3. Land Use

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| Lot Area        | acre   | 3.00000       | 2.95000   |
| Landscape Area  | sq. ft | —             | 25,700.0  |
| Lot Area        | acre   | 189.789       | 207.890   |
| Landscape Area  | sq. ft | —             | 1,811,100 |
| Lot Area        | acre   | 26.1162       | 0.00000   |
| Building Area   | sq. ft | 1,137,620     | 1,137,621 |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 18.0604       | 0.00000   |
| Building Area   | sq. ft | 786,710       | 786,708   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 12.6575       | 38.7500   |
| Building Area   | sq. ft | 551,360       | 551,359   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 4.46511       | 8.73600   |
| Building Area   | sq. ft | 194,500       | 194,498   |
| Landscape Area  | sq. ft | —             | 0.00000   |
| Lot Area        | acre   | 0.86088       | 6.55100   |



|                |        |           |           |
|----------------|--------|-----------|-----------|
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 3.95937   | 23.8850   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 1.28788   | 2.60800   |
| Building Area  | sq. ft | 56,100.0  | 56,095.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 47.3641   | 125.086   |
| Building Area  | sq. ft | 2,063,180 | 2,063,178 |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.64394   | 7.15600   |
| Building Area  | sq. ft | 28,050.0  | 28,045.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 1.38613   | 5.36800   |
| Building Area  | sq. ft | 60,380.0  | 60,379.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 2.83500   | 1.06900   |
| Building Area  | sq. ft | 123,493   | 16,030.0  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.21993   | 1.44700   |
| Building Area  | sq. ft | 9,580.00  | 9,577.00  |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.00000   | 0.87300   |
| Building Area  | sq. ft | 0.00000   | 136.000   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 46.3750   | 32.4140   |
| Building Area  | sq. ft | 786,520   | 588,481   |
| Landscape Area | sq. ft | —         | 0.00000   |
| Lot Area       | acre   | 0.25000   | 0.39700   |

|                |        |          |          |
|----------------|--------|----------|----------|
| Building Area  | sq. ft | 4,240.00 | 2,811.00 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 0.64935  | 2.10800  |
| Building Area  | sq. ft | 3,900.00 | 1,849.00 |
| Lot Area       | acre   | 2.78283  | 7.64800  |
| Building Area  | sq. ft | 121,220  | 121,222  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 4.80119  | 15.5080  |
| Building Area  | sq. ft | 209,140  | 209,143  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 2.23508  | 6.62600  |
| Building Area  | sq. ft | 97,360.0 | 97,359.0 |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 8.82874  | 35.0890  |
| Building Area  | sq. ft | 384,580  | 384,579  |
| Landscape Area | sq. ft | —        | 0.00000  |
| Lot Area       | acre   | 1.39853  | 5.21500  |
| Building Area  | sq. ft | 60,920.0 | 60,918.0 |
| Landscape Area | sq. ft | —        | 0.00000  |