

## Energy Use Summary - Artesia Parcel

| <b>Construction Phase (gallons/construction period)</b> | <b>Gasoline</b> | <b>Diesel</b> |                              |                             |
|---|-----------------|---------------|------------------------------|-----------------------------|
| Construction Vehicles                                   | 0               | 17,332        |                              |                             |
| Worker Trips  | 34,660          | 124           |                              |                             |
| Vendor Trips  | 7,100           | 91            |                              |                             |
| Haul Trucks   | 7               | 4,915         |                              |                             |
| <b>Total</b>  | <b>41,766</b>   | <b>22,463</b> |                              |                             |
|   |                 |               |                              |                             |
| <b>Operations Phase (gallons/year)</b>                  | <b>Gasoline</b> | <b>Diesel</b> | <b>Natural Gas (kBTU/yr)</b> | <b>Electricity (kWh/yr)</b> |
| Gasoline/Service Station                                | 37,836          | 7,196         | 11,863                       | 8,831                       |
| All Land Uses   | 37,836          | 7,196         | 11,863                       | 167,694                     |

### Energy Use Summary - Artesia Parcel

Year 2022

| Vehicle Types | MPG by Fuel Type |      |      | Population by Fuel Type |         |         |           |
|---------------|------------------|------|------|-------------------------|---------|---------|-----------|
|               | GAS              | DSL  | ELEC | GAS                     | DSL     | ELEC    | Total     |
| LDA           | 30.8             | 48.7 |      | 6,542,832               | 58,938  | 127,533 | 6,601,770 |
| LDT1          | 26.5             | 22.6 |      | 736,906                 | 387     | 5,339   | 737,293   |
| LDT2          | 24.7             | 35.7 |      | 2,246,303               | 14,235  | 22,590  | 2,260,537 |
| LHDT1         | 10.5             | 21.6 |      | 175,903                 | 119,381 |         | 295,284   |
| LHDT2         | 9.2              | 19.5 |      | 30,010                  | 47,336  |         | 77,346    |
| MCY           | 36.4             |      |      | 295,960                 |         |         | 295,960   |
| MDV           | 20.0             | 27.4 |      | 1,579,640               | 33,349  | 11,658  | 1,612,989 |
| MH            | 5.2              | 10.6 |      | 35,098                  | 12,759  |         | 47,857    |
| MHDT          | 5.1              | 10.7 |      | 25,445                  | 123,310 |         | 148,755   |
| HHDT          | 4.2              | 6.7  |      | 78                      | 108,362 |         | 108,440   |
| OBUS          | 5.0              | 8.5  |      | 5,959                   | 4,274   |         | 10,234    |
| SBUS          | 9.1              | 7.6  |      | 2,631                   | 6,631   |         | 9,262     |
| UBUS          | 4.9              | 6.0  |      | 952                     | 14      | 17      | 966       |

| Trips/Day                        | Trips/day  | Trips/day  | Trips/day  | Weekly Total |
|----------------------------------|------------|------------|------------|--------------|
| Land Use                         | Weekday    | Saturday   | Sunday     |              |
| Gasoline/Service Station         | 247.00     | 258.00     | 208.00     | 713          |
| Parking Lot                      |            |            |            |              |
| Unrefrigerated Warehouse-No Rail |            |            |            |              |
| <b>Total</b>                     | <b>247</b> | <b>258</b> | <b>208</b> | <b>713</b>   |

| Fleet Mix                | LDA      | LDT1     | LDT2     | MDV     | LHDT1    | LHDT2    | MHD      | HHD      | OBUS     | UBUS    | MCY      | SBUS     | MH       | Total  |
|--------------------------|----------|----------|----------|---------|----------|----------|----------|----------|----------|---------|----------|----------|----------|--------|
| Land Use                 |          |          |          |         |          |          |          |          |          |         |          |          |          |        |
| Gasoline/Service Station | 0.547192 | 0.045177 | 0.202743 | 0.12151 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.00227 | 0.005078 | 0.000682 | 0.000891 | 100.0% |
|                          |          |          |          |         |          |          |          |          |          |         |          |          |          | 0.0%   |
|                          |          |          |          |         |          |          |          |          |          |         |          |          |          | 0.0%   |
|                          |          |          |          |         |          |          |          |          |          |         |          |          |          | 0.0%   |
|                          |          |          |          |         |          |          |          |          |          |         |          |          |          | 0.0%   |

| Vehicle Trips                    | LDA       | LDT1      | LDT2      | MDV      | LHDT1    | LHDT2    | MHDT     | HHDT     | Obus     | Ubus     | MCY      | Sbus     | MH       | Total      | Daily VMT |
|----------------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|-----------|
| Weekday Trips                    |           |           |           |          |          |          |          |          |          |          |          |          |          |            |           |
| Gasoline/Service Station         | 11        | 50        | 30        | 4        | 2        | 5        | 7        | 1        | 1        | 1        | 1        | 0        | 0        | 247        | 2,864.71  |
| Parking Lot                      | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
| Unrefrigerated Warehouse-No Rail | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
|                                  | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
| <b>Total</b>                     | <b>11</b> | <b>50</b> | <b>30</b> | <b>4</b> | <b>2</b> | <b>5</b> | <b>7</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>247</b> |           |

| Saturday Trips           | LDA       | LDT1      | LDT2      | MDV      | LHDT1    | LHDT2    | MHDT     | HHDT     | Obus     | Ubus     | MCY      | Sbus     | MH       | Total      | Daily VMT |
|--------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|-----------|
| Gasoline/Service Station | 12        | 52        | 31        | 4        | 2        | 5        | 8        | 1        | 1        | 1        | 1        | 0        | 0        | 258        | 2,865     |
|                          | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
|                          | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
|                          | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
| <b>Total</b>             | <b>12</b> | <b>52</b> | <b>31</b> | <b>4</b> | <b>2</b> | <b>5</b> | <b>8</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>258</b> |           |

| Sunday Trips             | LDA      | LDT1      | LDT2      | MDV      | LHDT1    | LHDT2    | MHDT     | HHDT     | Obus     | Ubus     | MCY      | Sbus     | MH       | Total      | Daily VMT |
|--------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|-----------|
| Gasoline/Service Station | 9        | 42        | 25        | 3        | 1        | 4        | 6        | 1        | 1        | 0        | 1        | 0        | 0        | 208        | 2,865     |
|                          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
|                          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
|                          | 0        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0          | -         |
| <b>Total</b>             | <b>9</b> | <b>42</b> | <b>25</b> | <b>3</b> | <b>1</b> | <b>4</b> | <b>6</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>208</b> |           |

| Gallons of Fuel          | LDA           | LDT1         | LDT2         | MDV          | LHDT1      | LHDT2      | MHDT       | HHD      | Obus       | Ubus       | MCY        | Sbus      | MH         | Total         |
|--------------------------|---------------|--------------|--------------|--------------|------------|------------|------------|----------|------------|------------|------------|-----------|------------|---------------|
| Gasoline                 |               |              |              |              |            |            |            |          |            |            |            |           |            |               |
| Gasoline/Service Station | 18,334        | 1,779        | 8,519        | 6,203        | 952        | 271        | 693        | 5        | 298        | 481        | 145        | 22        | 132        | 37,836        |
|                          | 0             | 0            | 0            | 0            | 0          | 0          | 0          | 0        | 0          | 0          | 0          | 0         | 0          | 0             |
|                          | 0             | 0            | 0            | 0            | 0          | 0          | 0          | 0        | 0          | 0          | 0          | 0         | 0          | 0             |
|                          | 0             | 0            | 0            | 0            | 0          | 0          | 0          | 0        | 0          | 0          | 0          | 0         | 0          | 0             |
|                          | 0             | 0            | 0            | 0            | 0          | 0          | 0          | 0        | 0          | 0          | 0          | 0         | 0          | 0             |
| <b>Total</b>             | <b>18,334</b> | <b>1,779</b> | <b>8,519</b> | <b>6,203</b> | <b>952</b> | <b>271</b> | <b>693</b> | <b>5</b> | <b>298</b> | <b>481</b> | <b>145</b> | <b>22</b> | <b>132</b> | <b>37,836</b> |

| Diesel                   | LDA        | LDT1     | LDT2      | MDV       | OBUS       | LHDT2      | MHDT         | HHD          | Obus       | Ubus     | MCY      | Sbus      | MH        | Total        |
|--------------------------|------------|----------|-----------|-----------|------------|------------|--------------|--------------|------------|----------|----------|-----------|-----------|--------------|
| Gasoline/Service Station |            |          |           |           |            |            |              |              |            |          |          |           |           |              |
| Gasoline/Service Station | 105        | 1        | 37        | 96        | 316        | 201        | 1,591        | 4,626        | 127        | 6        | 0        | 67        | 23        | 7,196        |
|                          | 0          | 0        | 0         | 0         | 0          | 0          | 0            | 0            | 0          | 0        | 0        | 0         | 0         | 0            |
|                          | 0          | 0        | 0         | 0         | 0          | 0          | 0            | 0            | 0          | 0        | 0        | 0         | 0         | 0            |
|                          | 0          | 0        | 0         | 0         | 0          | 0          | 0            | 0            | 0          | 0        | 0        | 0         | 0         | 0            |
|                          | 0          | 0        | 0         | 0         | 0          | 0          | 0            | 0            | 0          | 0        | 0        | 0         | 0         | 0            |
| <b>Total</b>             | <b>105</b> | <b>1</b> | <b>37</b> | <b>96</b> | <b>316</b> | <b>201</b> | <b>1,591</b> | <b>4,626</b> | <b>127</b> | <b>6</b> | <b>0</b> | <b>67</b> | <b>23</b> | <b>7,196</b> |

45,032 Total Gallons

23 Average MPC

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| Land Use                      | Natural Gas Use<br>kBTU/yr | Electricity Use<br>kWh/yr |
|-------------------------------|----------------------------|---------------------------|
| Gasoline/Service Station      | 11863                      | 8,831                     |
| Parking Lot                   | 0                          | 158,863                   |
| Unrefrigerated Warehouse-No F | 94400                      | 565,939                   |
| <b>Total</b>                  | <b>106,263</b>             | <b>733,633</b>            |

11863

0

94400

## Energy Use Summary - Artesia Parcel

| PhaseName              | OffRoadEquipmentType         | OffRoadEquipmentUnitAmount | UsageHours | HorsePower | Load Factor | Horsepower Category | Num Days | Year | Fuel Consumption Rate (gal/hour) | Fuel Type       | Total Fuel Consumption (gal/construction period) |
|------------------------|------------------------------|----------------------------|------------|------------|-------------|---------------------|----------|------|----------------------------------|-----------------|--|
| Site Preparation       | Excavators                   | 2                          | 8          | 158        | 0.38        | 175                 | 23       | 2020 | 2.9                              | Diesel          | 404  |
| Site Preparation       | Rubber Tired Dozers          | 5                          | 8          | 247        | 0.4         | 300                 | 23       | 2020 | 4.5                              | Diesel          | 1,643  |
| Site Preparation       | Scrapers                     | 3                          | 8          | 367        | 0.48        | 300                 | 23       | 2020 | 5.6                              | Diesel          | 1,477  |
| Site Preparation       | Tractors/Loaders/Backhoes    | 0                          | 8          | 97         | 0.37        | 100                 | 23       | 2020 | 1.6                              | Diesel          | 0  |
| Grading                | Excavators                   | 2                          | 8          | 158        | 0.38        | 175                 | 40       | 2020 | 2.9                              | Diesel          | 702  |
| Grading                | Graders                      | 0                          | 8          | 187        | 0.41        | 175                 | 40       | 2020 | 3.1                              | Diesel          | 0  |
| Grading                | Rubber Tired Dozers          | 5                          | 8          | 247        | 0.4         | 300                 | 40       | 2020 | 4.5                              | Diesel          | 2,857  |
| Grading                | Scrapers                     | 3                          | 8          | 367        | 0.48        | 300                 | 40       | 2020 | 5.6                              | Diesel          | 2,569  |
| Grading                | Tractors/Loaders/Backhoes    | 0                          | 8          | 97         | 0.37        | 100                 | 40       | 2020 | 1.6                              | Diesel          | 0  |
| Soil Surcharge Program | Excavators                   | 0                          | 8          | 158        | 0.38        | 175                 | 30       | 2020 | 2.9                              | Diesel          | 0  |
| Soil Surcharge Program | Graders                      | 1                          | 8          | 187        | 0.41        | 175                 | 30       | 2020 | 3.1                              | Diesel          | 310  |
| Soil Surcharge Program | Rubber Tired Dozers          | 1                          | 8          | 247        | 0.4         | 300                 | 30       | 2020 | 4.5                              | Diesel          | 429  |
| Soil Surcharge Program | Scrapers                     | 4                          | 8          | 367        | 0.48        | 300                 | 30       | 2020 | 5.6                              | Diesel          | 2,569  |
| Soil Surcharge Program | Tractors/Loaders/Backhoes    | 0                          | 8          | 97         | 0.37        | 100                 | 30       | 2020 | 1.6                              | Diesel          | 0  |
| Building Construction  | Aerial Lifts                 | 2                          | 8          | 63         | 0.31        | 75                  | 197      | 2020 | 1.2                              | Diesel          | 1,125  |
| Building Construction  | Cranes                       | 1                          | 7          | 231        | 0.29        | 300                 | 197      | 2020 | 3.3                              | Diesel          | 1,324  |
| Building Construction  | Forklifts                    | 0                          | 8          | 89         | 0.2         | 100                 | 197      | 2020 | 2.0                              | Diesel          | 0  |
| Building Construction  | Generator Sets               | 0                          | 8          | 84         | 0.74        | 100                 | 197      | 2020 | 5.2                              | Gasoline        | 0  |
| Building Construction  | Other Construction Equipment | 0                          | 8          | 172        | 0.42        | 175                 | 197      | 2020 | 3.3                              | Diesel          | 0  |
| Building Construction  | Rough Terrain Forklifts      | 2                          | 8          | 100        | 0.4         | 100                 | 197      | 2020 | 0.9                              | Diesel          | 1,079  |
| Building Construction  | Tractors/Loaders/Backhoes    | 0                          | 7          | 97         | 0.37        | 100                 | 197      | 2020 | 1.6                              | Diesel          | 0  |
| Building Construction  | Welders                      | 0                          | 8          | 46         | 0.45        | 50                  | 197      | 2020 | 2.4                              | Gasoline        | 0  |
| Paving                 | Pavers                       | 2                          | 8          | 130        | 0.42        | 100                 | 23       | 2020 | 1.7                              | Diesel          | 268  |
| Paving                 | Paving Equipment             | 2                          | 8          | 132        | 0.36        | 100                 | 23       | 2020 | 1.6                              | Diesel          | 217  |
| Paving                 | Rollers                      | 2                          | 8          | 80         | 0.38        | 100                 | 23       | 2020 | 1.7                              | Diesel          | 237  |
| Architectural Coating  | Air Compressors              | 1                          | 6          | 78         | 0.48        | 100                 | 32       | 2020 | 1.3                              | Diesel          | 122  |
| <b>Total</b>           |                              |                            |            |            |             |                     |          |      |                                  |                 | <b>17,332</b>                                    |
|                        |                              |                            |            |            |             |                     |          |      | <b>Total</b>                     |                 | <b>-</b>   |
|                        |                              |                            |            |            |             |                     |          |      | <b>Total</b>                     | <b>Gasoline</b> | <b>17,332</b>                                    |
|                        |                              |                            |            |            |             |                     |          |      |                                  | <b>Diesel</b>   |  |

