

# **Appendix E**

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## **GHG CalEEMod Modeling**

|   | 2021<br>GHG Emissions<br>(MTCO <sub>2</sub> e/year) | 2022<br>GHG Emissions<br>(MTCO <sub>2</sub> e/year) | 2023<br>GHG Emissions<br>(MTCO <sub>2</sub> e/year) | 2024<br>GHG Emissions<br>(MTCO <sub>2</sub> e/year) |
|---|---|---|---|---|
| <b>SEGMENT A (2021/2022)</b>  |   |   |   |   |
| Initial Clearing and Rough Grading(6 weeks)   | 47.48   | 47.48   |   |   |
| New Bridge #2 Construction(10 weeks)  | 60.88   |   |   |   |
| New Bridge #4 Construction(10 weeks)  | 73.65   |   |   |   |
| Darling Bridge Widening(12 weeks)   |   | 127.28  |   |   |
| Finish grading(3 weeks)   | 18.37   | 18.37   |   |   |
| Retaining Walls/Railings and Undercrossings(8 weeks)  | 43.68   | 43.68   |   |   |
| Drainage, Utilities and Bank Stabilization(4 weeks)   | 7.23  | 7.23  |   |   |
| Paving (trail and trailhead)(6 weeks)   | 19.54   | 19.54   |   |   |
| Planting/Erosion Control/Miscellaneous(4 weeks)   | 7.91  | 7.91  |   |   |
| <b>SEGMENT TOTAL</b>  | <b>278.75</b>                                       | <b>271.50</b>                                       | <b>0</b>  | <b>0</b>  |
| <b>SEGMENT B (2021/2022)</b>  |   |   |   |   |
| Initial Clearing and Rough Grading  | 19.77   | 19.77   |   |   |
| New Bridge #13 Construction   | 41.14   |   |   |   |
| Retaining Walls/Railings Undercrossing  | 10.04   | 10.04   |   |   |
| Drainage and Bank Stabilization   | 6.23  | 6.23  |   |   |
| Finish grading  | 7.98  | 7.98  |   |   |
| Paving  | 12.38   | 12.38   |   |   |
| Planting/Erosion Control/Miscellaneous  | 3.11  | 3.11  |   |   |
| <b>SEGMENT TOTAL</b>  | <b>100.65</b>                                       | <b>59.51</b>  | <b>0</b>  | <b>0</b>  |
| <b>SEGMENT C (2021/2022)</b>  |   |   |   |   |
| Initial Clearing and Rough Grading  |   | 16.41   |   |   |
| Drainage and Bank Stabilization   |   | 6.61  |   |   |
| Finish grading  |   | 23.66   |   |   |
| Paving  | 22.65   | 22.65   |   |   |
| Planting/Erosion Control/Miscellaneous  | 3.74  | 3.74  |   |   |
| <b>SEGMENT TOTAL</b>  | <b>26.39</b>  | <b>73.07</b>  | <b>0</b>  | <b>0</b>  |
| <b>SEGMENT D (2023/2024)</b>  |   |   |   |   |
| Initial Clearing and Rough Grading  |   |   | 31.25   | 31.25   |
| Rocky Ridge Undercrossing   |   |   | 72.34   |   |
| New Bridge #20 Construction   |   |   | 51.24   |   |
| New Bridge #30 Construction   |   |   |   | 40.97   |
| Existing Bridge #21 Rehab/Widening  |   |   | 25.49   |   |
| Old Auburn Undercrossing  |   |   |   | 25.05   |
| Finish grading  |   |   | 13.71   | 13.71   |
| Drainage and Bank Stabilization   |   |   | 6.22  | 6.22  |
| Paving  |   |   | 19.60   | 19.60   |
| Planting/Erosion Control/Miscellaneous  |   |   | 8.10  | 8.10  |
| <b>SEGMENT TOTAL</b>  | <b>0</b>  | <b>0</b>  | <b>227.95</b>                                       | <b>144.89</b>                                       |
| <b>Total Maximum Annual Emissions from Construction Activity (MT CO<sub>2</sub>e/yr)</b>          |   |   |   |   |
|   | <b>405.78</b>                                       | <b>404.07</b>                                       | <b>227.95</b>                                       | <b>144.89</b>                                       |
| Emissions from one-time loss of carbon due to permanent vegetation removal (MTCO <sub>2</sub> )   | 549.45  |   |   |   |
| Annual emissions from carbon loss in proportion to construction activity (MT CO <sub>2</sub> /yr) | 188.52  | 187.72  | 105.90  | 67.31   |
| <b>Total Maximum Annual Emissions (MTCO<sub>2</sub>e/yr)</b>                                      | <b>594.30</b>                                       | <b>591.80</b>                                       | <b>333.85</b>                                       | <b>212.21</b>                                       |

**Calculation of Change in Carbon Storage and Sequestration Potential**

| Alternative              | Acres of Permanent Removal |                              |       | Number of trees removed | One-time Carbon Loss (MTCO <sub>2</sub> ) | Carbon Sequestration Potential Lost (MTCO <sub>2</sub> /year) |
|--------------------------|----------------------------|------------------------------|-------|-------------------------|---|---|
|                          | Riparian Forest            | Valley Oak Riparian Woodland | Total |                         |   |   |
| Proposed Trail Alignment | 0.7                        | 4.3                          | 4.95  | 74                      | 549                                       | 2.6   |

Assumed tree density in project area based on Google Maps review (trees/acre)

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CalEEMod v 2016.3.1 Appendix D Tables

**Table 11.1 Change in Sequestered GHG Emissions**

| Vegetation Land Use Type | Vegetation Land Use Subtype | Biogenic CO <sub>2</sub> Emissions (MT CO <sub>2</sub> /Acre) |
|--------------------------|-----------------------------|---|
| Forest Land              | Scrub                       | 14.3  |
| Forest Land              | Trees                       | 111   |
| Cropland                 | Cropland                    | 6.2   |
| Grassland                | Grassland                   | 4.31  |
| Wetlands                 | Wetlands                    | 0   |
| Others                   | Others                      | 0   |

**Table 11.2 Sequestration of Trees**

| Species          | CO <sub>2</sub> Sequestered (MT/tree/year) |
|------------------|--|
| Aspen            | 0.0352                                     |
| Soft Maple       | 0.0433                                     |
| Mixed Hardwood   | 0.0367                                     |
| Hardwood Maple   | 0.0521                                     |
| Juniper          | 0.0121                                     |
| Cedar/Larch      | 0.0264                                     |
| Douglas Fir      | 0.0447                                     |
| True Fir/Hemlock | 0.0381                                     |
| Pine             | 0.0319                                     |
| Spruce           | 0.0337                                     |
| Miscellaneous    | 0.0354                                     |

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Bridge #2**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 50.00     |
| tblOffRoadEquipment       | HorsePower                 | 231.00        | 9.00      |
| tblOffRoadEquipment       | LoadFactor                 | 0.29          | 0.56      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 4.00          | 8.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 5.00      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

**2.0 Emissions Summary**

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Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0297        | 0.2912        | 0.3133        | 6.9000e-004        | 2.6600e-003        | 0.0134        | 0.0161        | 7.2000e-004        | 0.0127        | 0.0134        | 0.0000        | 60.5139        | 60.5139        | 0.0145        | 0.0000        | 60.8756        |
| <b>Maximum</b> | <b>0.0297</b> | <b>0.2912</b> | <b>0.3133</b> | <b>6.9000e-004</b> | <b>2.6600e-003</b> | <b>0.0134</b> | <b>0.0161</b> | <b>7.2000e-004</b> | <b>0.0127</b> | <b>0.0134</b> | <b>0.0000</b> | <b>60.5139</b> | <b>60.5139</b> | <b>0.0145</b> | <b>0.0000</b> | <b>60.8756</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0297        | 0.2912        | 0.3133        | 6.9000e-004        | 2.6600e-003        | 0.0134        | 0.0161        | 7.2000e-004        | 0.0127        | 0.0134        | 0.0000        | 60.5139        | 60.5139        | 0.0145        | 0.0000        | 60.8755        |
| <b>Maximum</b> | <b>0.0297</b> | <b>0.2912</b> | <b>0.3133</b> | <b>6.9000e-004</b> | <b>2.6600e-003</b> | <b>0.0134</b> | <b>0.0161</b> | <b>7.2000e-004</b> | <b>0.0127</b> | <b>0.0134</b> | <b>0.0000</b> | <b>60.5139</b> | <b>60.5139</b> | <b>0.0145</b> | <b>0.0000</b> | <b>60.8755</b> |

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

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.3207                                       | 0.3207                                     |
|         |            | Highest   | 0.3207                                       | 0.3207                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 4/1/2021   | 6/9/2021 | 5             | 50       |                   |

**Acres of Grading (Site Preparation Phase): 0**



Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Building Construction | Cranes                    | 1      | 8.00        | 9           | 0.56        |
| Building Construction | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Building Construction | Paving Equipment          | 1      | 2.00        | 132         | 0.36        |
| Building Construction | Pumps                     | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Rollers                   | 1      | 4.80        | 80          | 0.38        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 4.80        | 97          | 0.37        |
| Building Construction | Cranes                    | 0      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 7                       | 10.00              | 4.00               | 5.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Annual

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0286        | 0.2791        | 0.3052        | 6.4000e-004        |               | 0.0134        | 0.0134        |                | 0.0127        | 0.0127        | 0.0000        | 55.9483        | 55.9483        | 0.0143        | 0.0000        | 56.3057        |
| <b>Total</b> | <b>0.0286</b> | <b>0.2791</b> | <b>0.3052</b> | <b>6.4000e-004</b> |               | <b>0.0134</b> | <b>0.0134</b> |                | <b>0.0127</b> | <b>0.0127</b> | <b>0.0000</b> | <b>55.9483</b> | <b>55.9483</b> | <b>0.0143</b> | <b>0.0000</b> | <b>56.3057</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.0000e-005        | 6.4000e-004   | 1.1000e-004        | 0.0000             | 4.0000e-005        | 0.0000             | 4.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1923        | 0.1923        | 1.0000e-005        | 0.0000        | 0.1925        |
| Vendor       | 3.1000e-004        | 0.0109        | 2.0900e-003        | 3.0000e-005        | 6.5000e-004        | 2.0000e-005        | 6.8000e-004        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 0.0000        | 2.7385        | 2.7385        | 1.3000e-004        | 0.0000        | 2.7417        |
| Worker       | 8.1000e-004        | 5.4000e-004   | 5.9400e-003        | 2.0000e-005        | 1.9600e-003        | 1.0000e-005        | 1.9800e-003        | 5.2000e-004        | 1.0000e-005        | 5.3000e-004        | 0.0000        | 1.6349        | 1.6349        | 4.0000e-005        | 0.0000        | 1.6358        |
| <b>Total</b> | <b>1.1400e-003</b> | <b>0.0121</b> | <b>8.1400e-003</b> | <b>5.0000e-005</b> | <b>2.6500e-003</b> | <b>3.0000e-005</b> | <b>2.7000e-003</b> | <b>7.2000e-004</b> | <b>3.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>4.5656</b> | <b>4.5656</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>4.5699</b> |

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0286        | 0.2791        | 0.3052        | 6.4000e-004        |               | 0.0134        | 0.0134        |                | 0.0127        | 0.0127        | 0.0000        | 55.9482        | 55.9482        | 0.0143        | 0.0000        | 56.3056        |
| <b>Total</b> | <b>0.0286</b> | <b>0.2791</b> | <b>0.3052</b> | <b>6.4000e-004</b> |               | <b>0.0134</b> | <b>0.0134</b> |                | <b>0.0127</b> | <b>0.0127</b> | <b>0.0000</b> | <b>55.9482</b> | <b>55.9482</b> | <b>0.0143</b> | <b>0.0000</b> | <b>56.3056</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.0000e-005        | 6.4000e-004   | 1.1000e-004        | 0.0000             | 4.0000e-005        | 0.0000             | 4.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1923        | 0.1923        | 1.0000e-005        | 0.0000        | 0.1925        |
| Vendor       | 3.1000e-004        | 0.0109        | 2.0900e-003        | 3.0000e-005        | 6.5000e-004        | 2.0000e-005        | 6.8000e-004        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 0.0000        | 2.7385        | 2.7385        | 1.3000e-004        | 0.0000        | 2.7417        |
| Worker       | 8.1000e-004        | 5.4000e-004   | 5.9400e-003        | 2.0000e-005        | 1.9600e-003        | 1.0000e-005        | 1.9800e-003        | 5.2000e-004        | 1.0000e-005        | 5.3000e-004        | 0.0000        | 1.6349        | 1.6349        | 4.0000e-005        | 0.0000        | 1.6358        |
| <b>Total</b> | <b>1.1400e-003</b> | <b>0.0121</b> | <b>8.1400e-003</b> | <b>5.0000e-005</b> | <b>2.6500e-003</b> | <b>3.0000e-005</b> | <b>2.7000e-003</b> | <b>7.2000e-004</b> | <b>3.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>4.5656</b> | <b>4.5656</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>4.5699</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Natural Gas Mitigated   | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Natural Gas Unmitigated | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Bridge #4**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                |                    |                                |       |                                  |       |
|--------------------------------|--------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban              | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>            | 2                  |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Roseville Electric |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 793.8              | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 50.00     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 4.00          | 8.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 5.00      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0400        | 0.4124        | 0.3629        | 8.3000e-004        | 2.6600e-003        | 0.0183        | 0.0210        | 7.2000e-004        | 0.0172        | 0.0180        | 0.0000        | 73.1859        | 73.1859        | 0.0186        | 0.0000        | 73.6500        |
| <b>Maximum</b> | <b>0.0400</b> | <b>0.4124</b> | <b>0.3629</b> | <b>8.3000e-004</b> | <b>2.6600e-003</b> | <b>0.0183</b> | <b>0.0210</b> | <b>7.2000e-004</b> | <b>0.0172</b> | <b>0.0180</b> | <b>0.0000</b> | <b>73.1859</b> | <b>73.1859</b> | <b>0.0186</b> | <b>0.0000</b> | <b>73.6500</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0400        | 0.4124        | 0.3629        | 8.3000e-004        | 2.6600e-003        | 0.0183        | 0.0210        | 7.2000e-004        | 0.0172        | 0.0180        | 0.0000        | 73.1858        | 73.1858        | 0.0186        | 0.0000        | 73.6500        |
| <b>Maximum</b> | <b>0.0400</b> | <b>0.4124</b> | <b>0.3629</b> | <b>8.3000e-004</b> | <b>2.6600e-003</b> | <b>0.0183</b> | <b>0.0210</b> | <b>7.2000e-004</b> | <b>0.0172</b> | <b>0.0180</b> | <b>0.0000</b> | <b>73.1858</b> | <b>73.1858</b> | <b>0.0186</b> | <b>0.0000</b> | <b>73.6500</b> |

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



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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.4523                                       | 0.4523                                     |
|         |            | Highest   | 0.4523                                       | 0.4523                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 4/1/2021   | 6/9/2021 | 5             | 50       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Building Construction | Paving Equipment          | 1      | 2.00        | 132         | 0.36        |
| Building Construction | Pumps                     | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Rollers                   | 1      | 4.80        | 80          | 0.38        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 4.80        | 97          | 0.37        |
| Building Construction | Cranes                    | 0      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 7                       | 10.00              | 4.00               | 5.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0389        | 0.4003        | 0.3547        | 7.8000e-004        |               | 0.0183        | 0.0183        |                | 0.0172        | 0.0172        | 0.0000        | 68.6203        | 68.6203        | 0.0184        | 0.0000        | 69.0801        |
| <b>Total</b> | <b>0.0389</b> | <b>0.4003</b> | <b>0.3547</b> | <b>7.8000e-004</b> |               | <b>0.0183</b> | <b>0.0183</b> |                | <b>0.0172</b> | <b>0.0172</b> | <b>0.0000</b> | <b>68.6203</b> | <b>68.6203</b> | <b>0.0184</b> | <b>0.0000</b> | <b>69.0801</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.0000e-005        | 6.4000e-004   | 1.1000e-004        | 0.0000             | 4.0000e-005        | 0.0000             | 4.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1923        | 0.1923        | 1.0000e-005        | 0.0000        | 0.1925        |
| Vendor       | 3.1000e-004        | 0.0109        | 2.0900e-003        | 3.0000e-005        | 6.5000e-004        | 2.0000e-005        | 6.8000e-004        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 0.0000        | 2.7385        | 2.7385        | 1.3000e-004        | 0.0000        | 2.7417        |
| Worker       | 8.1000e-004        | 5.4000e-004   | 5.9400e-003        | 2.0000e-005        | 1.9600e-003        | 1.0000e-005        | 1.9800e-003        | 5.2000e-004        | 1.0000e-005        | 5.3000e-004        | 0.0000        | 1.6349        | 1.6349        | 4.0000e-005        | 0.0000        | 1.6358        |
| <b>Total</b> | <b>1.1400e-003</b> | <b>0.0121</b> | <b>8.1400e-003</b> | <b>5.0000e-005</b> | <b>2.6500e-003</b> | <b>3.0000e-005</b> | <b>2.7000e-003</b> | <b>7.2000e-004</b> | <b>3.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>4.5656</b> | <b>4.5656</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>4.5699</b> |

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0389        | 0.4003        | 0.3547        | 7.8000e-004        |               | 0.0183        | 0.0183        |                | 0.0172        | 0.0172        | 0.0000        | 68.6202        | 68.6202        | 0.0184        | 0.0000        | 69.0800        |
| <b>Total</b> | <b>0.0389</b> | <b>0.4003</b> | <b>0.3547</b> | <b>7.8000e-004</b> |               | <b>0.0183</b> | <b>0.0183</b> |                | <b>0.0172</b> | <b>0.0172</b> | <b>0.0000</b> | <b>68.6202</b> | <b>68.6202</b> | <b>0.0184</b> | <b>0.0000</b> | <b>69.0800</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.0000e-005        | 6.4000e-004   | 1.1000e-004        | 0.0000             | 4.0000e-005        | 0.0000             | 4.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1923        | 0.1923        | 1.0000e-005        | 0.0000        | 0.1925        |
| Vendor       | 3.1000e-004        | 0.0109        | 2.0900e-003        | 3.0000e-005        | 6.5000e-004        | 2.0000e-005        | 6.8000e-004        | 1.9000e-004        | 2.0000e-005        | 2.1000e-004        | 0.0000        | 2.7385        | 2.7385        | 1.3000e-004        | 0.0000        | 2.7417        |
| Worker       | 8.1000e-004        | 5.4000e-004   | 5.9400e-003        | 2.0000e-005        | 1.9600e-003        | 1.0000e-005        | 1.9800e-003        | 5.2000e-004        | 1.0000e-005        | 5.3000e-004        | 0.0000        | 1.6349        | 1.6349        | 4.0000e-005        | 0.0000        | 1.6358        |
| <b>Total</b> | <b>1.1400e-003</b> | <b>0.0121</b> | <b>8.1400e-003</b> | <b>5.0000e-005</b> | <b>2.6500e-003</b> | <b>3.0000e-005</b> | <b>2.7000e-003</b> | <b>7.2000e-004</b> | <b>3.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>4.5656</b> | <b>4.5656</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>4.5699</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Clearing and Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Clearing and Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 6.00 | Acre   | 6.00        | 261,360.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 6,300 ft (1.2 miles)

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 6,300 ft (1.2 miles)



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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 10.00         | 30.00     |
| tblGrading                | AcresOfGrading             | 7.50          | 6.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 4.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 4.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 2.70      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 2.00      |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 28.00         | 10.00     |

**2.0 Emissions Summary**

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Roseville Dry Creek Trail\_Segment A\_Clearing and Grading - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0352        | 0.3650        | 0.2699        | 5.3000e-004        | 0.0499        | 0.0171        | 0.0671        | 0.0256         | 0.0158        | 0.0414        | 0.0000        | 47.1181        | 47.1181        | 0.0145        | 0.0000        | 47.4797        |
| <b>Maximum</b> | <b>0.0352</b> | <b>0.3650</b> | <b>0.2699</b> | <b>5.3000e-004</b> | <b>0.0499</b> | <b>0.0171</b> | <b>0.0671</b> | <b>0.0256</b>  | <b>0.0158</b> | <b>0.0414</b> | <b>0.0000</b> | <b>47.1181</b> | <b>47.1181</b> | <b>0.0145</b> | <b>0.0000</b> | <b>47.4797</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0352        | 0.3650        | 0.2699        | 5.3000e-004        | 0.0499        | 0.0171        | 0.0671        | 0.0256         | 0.0158        | 0.0414        | 0.0000        | 47.1180        | 47.1180        | 0.0145        | 0.0000        | 47.4797        |
| <b>Maximum</b> | <b>0.0352</b> | <b>0.3650</b> | <b>0.2699</b> | <b>5.3000e-004</b> | <b>0.0499</b> | <b>0.0171</b> | <b>0.0671</b> | <b>0.0256</b>  | <b>0.0158</b> | <b>0.0414</b> | <b>0.0000</b> | <b>47.1180</b> | <b>47.1180</b> | <b>0.0145</b> | <b>0.0000</b> | <b>47.4797</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.4001                                       | 0.4001                                     |
|         |            | Highest   | 0.4001                                       | 0.4001                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name                         | Phase Type       | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------------------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Initial Clearing and Rough Grading | Site Preparation | 4/1/2021   | 5/12/2021 | 5             | 30       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name                         | Offroad Equipment Type       | Amount | Usage Hours | Horse Power | Load Factor |
|------------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Initial Clearing and Rough Grading | Excavators                   | 1      | 5.40        | 158         | 0.38        |
| Initial Clearing and Rough Grading | Graders                      | 1      | 4.00        | 187         | 0.41        |
| Initial Clearing and Rough Grading | Off-Highway Trucks           | 1      | 4.00        | 402         | 0.38        |
| Initial Clearing and Rough Grading | Other Construction Equipment | 4      | 4.00        | 172         | 0.42        |
| Initial Clearing and Rough Grading | Rollers                      | 2      | 4.00        | 80          | 0.38        |
| Initial Clearing and Rough Grading | Rubber Tired Dozers          | 1      | 4.00        | 247         | 0.40        |
| Initial Clearing and Rough Grading | Tractors/Loaders/Backhoes    | 1      | 2.70        | 97          | 0.37        |
| Initial Clearing and Rough Grading | Rubber Tired Dozers          | 0      | 8.00        | 247         | 0.40        |
| Initial Clearing and Rough Grading | Tractors/Loaders/Backhoes    | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name                         | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Initial Clearing and Rough Grading | 11                      | 10.00              | 4.00               | 2.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Initial Clearing and Rough Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0484        | 0.0000        | 0.0484        | 0.0252         | 0.0000        | 0.0252        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0345        | 0.3579        | 0.2650        | 5.1000e-004        |               | 0.0171        | 0.0171        |                | 0.0157        | 0.0157        | 0.0000        | 44.4171        | 44.4171        | 0.0144        | 0.0000        | 44.7763        |
| <b>Total</b>  | <b>0.0345</b> | <b>0.3579</b> | <b>0.2650</b> | <b>5.1000e-004</b> | <b>0.0484</b> | <b>0.0171</b> | <b>0.0655</b> | <b>0.0252</b>  | <b>0.0157</b> | <b>0.0409</b> | <b>0.0000</b> | <b>44.4171</b> | <b>44.4171</b> | <b>0.0144</b> | <b>0.0000</b> | <b>44.7763</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 1.9000e-004        | 6.5500e-003        | 1.2500e-003        | 2.0000e-005        | 3.9000e-004        | 1.0000e-005        | 4.1000e-004        | 1.1000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.6431        | 1.6431        | 8.0000e-005        | 0.0000        | 1.6450        |
| Worker       | 4.8000e-004        | 3.3000e-004        | 3.5600e-003        | 1.0000e-005        | 1.1800e-003        | 1.0000e-005        | 1.1900e-003        | 3.1000e-004        | 1.0000e-005        | 3.2000e-004        | 0.0000        | 0.9809        | 0.9809        | 2.0000e-005        | 0.0000        | 0.9815        |
| <b>Total</b> | <b>6.8000e-004</b> | <b>7.1300e-003</b> | <b>4.8500e-003</b> | <b>3.0000e-005</b> | <b>1.5900e-003</b> | <b>2.0000e-005</b> | <b>1.6200e-003</b> | <b>4.2000e-004</b> | <b>2.0000e-005</b> | <b>4.6000e-004</b> | <b>0.0000</b> | <b>2.7009</b> | <b>2.7009</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>2.7035</b> |

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**3.2 Initial Clearing and Rough Grading - 2021**

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0484        | 0.0000        | 0.0484        | 0.0252         | 0.0000        | 0.0252        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0345        | 0.3579        | 0.2650        | 5.1000e-004        |               | 0.0171        | 0.0171        |                | 0.0157        | 0.0157        | 0.0000        | 44.4171        | 44.4171        | 0.0144        | 0.0000        | 44.7762        |
| <b>Total</b>  | <b>0.0345</b> | <b>0.3579</b> | <b>0.2650</b> | <b>5.1000e-004</b> | <b>0.0484</b> | <b>0.0171</b> | <b>0.0655</b> | <b>0.0252</b>  | <b>0.0157</b> | <b>0.0409</b> | <b>0.0000</b> | <b>44.4171</b> | <b>44.4171</b> | <b>0.0144</b> | <b>0.0000</b> | <b>44.7762</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 1.9000e-004        | 6.5500e-003        | 1.2500e-003        | 2.0000e-005        | 3.9000e-004        | 1.0000e-005        | 4.1000e-004        | 1.1000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.6431        | 1.6431        | 8.0000e-005        | 0.0000        | 1.6450        |
| Worker       | 4.8000e-004        | 3.3000e-004        | 3.5600e-003        | 1.0000e-005        | 1.1800e-003        | 1.0000e-005        | 1.1900e-003        | 3.1000e-004        | 1.0000e-005        | 3.2000e-004        | 0.0000        | 0.9809        | 0.9809        | 2.0000e-005        | 0.0000        | 0.9815        |
| <b>Total</b> | <b>6.8000e-004</b> | <b>7.1300e-003</b> | <b>4.8500e-003</b> | <b>3.0000e-005</b> | <b>1.5900e-003</b> | <b>2.0000e-005</b> | <b>1.6200e-003</b> | <b>4.2000e-004</b> | <b>2.0000e-005</b> | <b>4.6000e-004</b> | <b>0.0000</b> | <b>2.7009</b> | <b>2.7009</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>2.7035</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |
| Unmitigated | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |
| Total     | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Unmitigated | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |
| Unmitigated | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |
| Unmitigated | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**9.0 Operational Offroad**

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



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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Note

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 60.00     |
| tblOffRoadEquipment       | HorsePower                 | 172.00        | 168.00    |
| tblOffRoadEquipment       | LoadFactor                 | 0.42          | 0.40      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 4.00          | 8.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 12.00     |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                 |                 |               |               |                 |
| 2021           | 0.0758        | 0.7838        | 0.7191        | 1.4400e-003        | 3.2400e-003        | 0.0370        | 0.0402        | 8.8000e-004        | 0.0344        | 0.0353        | 0.0000        | 126.4108        | 126.4108        | 0.0347        | 0.0000        | 127.2781        |
| <b>Maximum</b> | <b>0.0758</b> | <b>0.7838</b> | <b>0.7191</b> | <b>1.4400e-003</b> | <b>3.2400e-003</b> | <b>0.0370</b> | <b>0.0402</b> | <b>8.8000e-004</b> | <b>0.0344</b> | <b>0.0353</b> | <b>0.0000</b> | <b>126.4108</b> | <b>126.4108</b> | <b>0.0347</b> | <b>0.0000</b> | <b>127.2781</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                 |                 |               |               |                 |
| 2021           | 0.0758        | 0.7838        | 0.7191        | 1.4400e-003        | 3.2400e-003        | 0.0370        | 0.0402        | 8.8000e-004        | 0.0344        | 0.0353        | 0.0000        | 126.4107        | 126.4107        | 0.0347        | 0.0000        | 127.2779        |
| <b>Maximum</b> | <b>0.0758</b> | <b>0.7838</b> | <b>0.7191</b> | <b>1.4400e-003</b> | <b>3.2400e-003</b> | <b>0.0370</b> | <b>0.0402</b> | <b>8.8000e-004</b> | <b>0.0344</b> | <b>0.0353</b> | <b>0.0000</b> | <b>126.4107</b> | <b>126.4107</b> | <b>0.0347</b> | <b>0.0000</b> | <b>127.2779</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.8594                                       | 0.8594                                     |
|         |            | Highest   | 0.8594                                       | 0.8594                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 4/1/2021   | 6/23/2021 | 5             | 60       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type       | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------------|--------|-------------|-------------|-------------|
| Building Construction | Bore/Drill Rigs              | 1      | 8.00        | 221         | 0.50        |
| Building Construction | Cranes                       | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Excavators                   | 1      | 8.00        | 158         | 0.38        |
| Building Construction | Other Construction Equipment | 2      | 8.00        | 168         | 0.40        |
| Building Construction | Paving Equipment             | 1      | 8.00        | 132         | 0.36        |
| Building Construction | Pumps                        | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Rollers                      | 1      | 4.80        | 80          | 0.38        |
| Building Construction | Tractors/Loaders/Backhoes    | 1      | 4.80        | 97          | 0.37        |
| Building Construction | Cranes                       | 0      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                    | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes    | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 9                       | 10.00              | 4.00               | 12.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.0744        | 0.7686        | 0.7092        | 1.3800e-003        |               | 0.0369        | 0.0369        |                | 0.0344        | 0.0344        | 0.0000        | 120.7013        | 120.7013        | 0.0345        | 0.0000        | 121.5632        |
| <b>Total</b> | <b>0.0744</b> | <b>0.7686</b> | <b>0.7092</b> | <b>1.3800e-003</b> |               | <b>0.0369</b> | <b>0.0369</b> |                | <b>0.0344</b> | <b>0.0344</b> | <b>0.0000</b> | <b>120.7013</b> | <b>120.7013</b> | <b>0.0345</b> | <b>0.0000</b> | <b>121.5632</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 5.0000e-005        | 1.5300e-003   | 2.6000e-004        | 0.0000             | 1.0000e-004        | 0.0000             | 1.1000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.4616        | 0.4616        | 1.0000e-005        | 0.0000        | 0.4620        |
| Vendor       | 3.7000e-004        | 0.0131        | 2.5000e-003        | 3.0000e-005        | 7.8000e-004        | 3.0000e-005        | 8.1000e-004        | 2.3000e-004        | 3.0000e-005        | 2.6000e-004        | 0.0000        | 3.2862        | 3.2862        | 1.5000e-004        | 0.0000        | 3.2900        |
| Worker       | 9.7000e-004        | 6.5000e-004   | 7.1200e-003        | 2.0000e-005        | 2.3600e-003        | 2.0000e-005        | 2.3700e-003        | 6.3000e-004        | 1.0000e-005        | 6.4000e-004        | 0.0000        | 1.9618        | 1.9618        | 4.0000e-005        | 0.0000        | 1.9630        |
| <b>Total</b> | <b>1.3900e-003</b> | <b>0.0153</b> | <b>9.8800e-003</b> | <b>5.0000e-005</b> | <b>3.2400e-003</b> | <b>5.0000e-005</b> | <b>3.2900e-003</b> | <b>8.9000e-004</b> | <b>4.0000e-005</b> | <b>9.3000e-004</b> | <b>0.0000</b> | <b>5.7096</b> | <b>5.7096</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>5.7149</b> |



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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.0744        | 0.7686        | 0.7092        | 1.3800e-003        |               | 0.0369        | 0.0369        |                | 0.0344        | 0.0344        | 0.0000        | 120.7011        | 120.7011        | 0.0345        | 0.0000        | 121.5631        |
| <b>Total</b> | <b>0.0744</b> | <b>0.7686</b> | <b>0.7092</b> | <b>1.3800e-003</b> |               | <b>0.0369</b> | <b>0.0369</b> |                | <b>0.0344</b> | <b>0.0344</b> | <b>0.0000</b> | <b>120.7011</b> | <b>120.7011</b> | <b>0.0345</b> | <b>0.0000</b> | <b>121.5631</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 5.0000e-005        | 1.5300e-003   | 2.6000e-004        | 0.0000             | 1.0000e-004        | 0.0000             | 1.1000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.4616        | 0.4616        | 1.0000e-005        | 0.0000        | 0.4620        |
| Vendor       | 3.7000e-004        | 0.0131        | 2.5000e-003        | 3.0000e-005        | 7.8000e-004        | 3.0000e-005        | 8.1000e-004        | 2.3000e-004        | 3.0000e-005        | 2.6000e-004        | 0.0000        | 3.2862        | 3.2862        | 1.5000e-004        | 0.0000        | 3.2900        |
| Worker       | 9.7000e-004        | 6.5000e-004   | 7.1200e-003        | 2.0000e-005        | 2.3600e-003        | 2.0000e-005        | 2.3700e-003        | 6.3000e-004        | 1.0000e-005        | 6.4000e-004        | 0.0000        | 1.9618        | 1.9618        | 4.0000e-005        | 0.0000        | 1.9630        |
| <b>Total</b> | <b>1.3900e-003</b> | <b>0.0153</b> | <b>9.8800e-003</b> | <b>5.0000e-005</b> | <b>3.2400e-003</b> | <b>5.0000e-005</b> | <b>3.2900e-003</b> | <b>8.9000e-004</b> | <b>4.0000e-005</b> | <b>9.3000e-004</b> | <b>0.0000</b> | <b>5.7096</b> | <b>5.7096</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>5.7149</b> |

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

### 7.2 Water by Land Use

#### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |



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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Drainage and Utilities - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Drainage and Utilities  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment A\_Drainage and Utilities - Placer County APCD Air District, Annual

| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 20.00     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 2.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment A\_Drainage and Utilities - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 3.4900e-003        | 0.0318        | 0.0312        | 8.0000e-005        | 1.0500e-003        | 1.2200e-003        | 2.2600e-003        | 2.8000e-004        | 1.1200e-003        | 1.4100e-003        | 0.0000        | 7.1894        | 7.1894        | 1.7900e-003        | 0.0000        | 7.2342        |
| <b>Maximum</b> | <b>3.4900e-003</b> | <b>0.0318</b> | <b>0.0312</b> | <b>8.0000e-005</b> | <b>1.0500e-003</b> | <b>1.2200e-003</b> | <b>2.2600e-003</b> | <b>2.8000e-004</b> | <b>1.1200e-003</b> | <b>1.4100e-003</b> | <b>0.0000</b> | <b>7.1894</b> | <b>7.1894</b> | <b>1.7900e-003</b> | <b>0.0000</b> | <b>7.2342</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 3.4900e-003        | 0.0318        | 0.0312        | 8.0000e-005        | 1.0500e-003        | 1.2200e-003        | 2.2600e-003        | 2.8000e-004        | 1.1200e-003        | 1.4100e-003        | 0.0000        | 7.1894        | 7.1894        | 1.7900e-003        | 0.0000        | 7.2342        |
| <b>Maximum</b> | <b>3.4900e-003</b> | <b>0.0318</b> | <b>0.0312</b> | <b>8.0000e-005</b> | <b>1.0500e-003</b> | <b>1.2200e-003</b> | <b>2.2600e-003</b> | <b>2.8000e-004</b> | <b>1.1200e-003</b> | <b>1.4100e-003</b> | <b>0.0000</b> | <b>7.1894</b> | <b>7.1894</b> | <b>1.7900e-003</b> | <b>0.0000</b> | <b>7.2342</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.0353                                       | 0.0353                                     |
|         |            | Highest   | 0.0353                                       | 0.0353                                     |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 4/1/2021   | 4/28/2021 | 5             | 20       |                   |

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Excavators                | 1      | 3.00        | 158         | 0.38        |
| Building Construction | Off-Highway Trucks        | 1      | 2.00        | 402         | 0.38        |
| Building Construction | Plate Compactors          | 2      | 2.00        | 8           | 0.43        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 2.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 0      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 5                       | 10.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 3.0400e-003        | 0.0272        | 0.0280        | 6.0000e-005        |               | 1.2000e-003        | 1.2000e-003        |                | 1.1100e-003        | 1.1100e-003        | 0.0000        | 5.4401        | 5.4401        | 1.7300e-003        | 0.0000        | 5.4832        |
| <b>Total</b> | <b>3.0400e-003</b> | <b>0.0272</b> | <b>0.0280</b> | <b>6.0000e-005</b> |               | <b>1.2000e-003</b> | <b>1.2000e-003</b> |                | <b>1.1100e-003</b> | <b>1.1100e-003</b> | <b>0.0000</b> | <b>5.4401</b> | <b>5.4401</b> | <b>1.7300e-003</b> | <b>0.0000</b> | <b>5.4832</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.4000e-004</b> | <b>4.5900e-003</b> | <b>3.2000e-003</b> | <b>2.0000e-005</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0600e-003</b> | <b>2.9000e-004</b> | <b>1.0000e-005</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>1.7493</b> | <b>1.7493</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.7510</b> |

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 3.0400e-003        | 0.0272        | 0.0280        | 6.0000e-005        |               | 1.2000e-003        | 1.2000e-003        |                | 1.1100e-003        | 1.1100e-003        | 0.0000        | 5.4401        | 5.4401        | 1.7300e-003        | 0.0000        | 5.4832        |
| <b>Total</b> | <b>3.0400e-003</b> | <b>0.0272</b> | <b>0.0280</b> | <b>6.0000e-005</b> |               | <b>1.2000e-003</b> | <b>1.2000e-003</b> |                | <b>1.1100e-003</b> | <b>1.1100e-003</b> | <b>0.0000</b> | <b>5.4401</b> | <b>5.4401</b> | <b>1.7300e-003</b> | <b>0.0000</b> | <b>5.4832</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.4000e-004</b> | <b>4.5900e-003</b> | <b>3.2000e-003</b> | <b>2.0000e-005</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0600e-003</b> | <b>2.9000e-004</b> | <b>1.0000e-005</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>1.7493</b> | <b>1.7493</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.7510</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

Roseville Dry Creek Trail\_Segment A\_Drainage and Utilities - Placer County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

### 7.2 Water by Land Use

#### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Grading**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 6.00 | Acre   | 6.00        | 261,360.00         | 0          |

**1.2 Other Project Characteristics**

|                                |                    |                                |       |                                  |       |
|--------------------------------|--------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban              | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>            | 2                  |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Roseville Electric |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 793.8              | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 6,300 ft (1.2 miles)

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 20.00         | 15.00     |
| tblGrading                | AcresOfGrading             | 3.75          | 6.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 200.00    |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 13.00         | 10.00     |

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

|         | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Year    | tons/yr     |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |         |
| 2021    | 7.1900e-003 | 0.0924 | 0.0494 | 2.0000e-004 | 5.6500e-003   | 2.8200e-003  | 8.4700e-003 | 1.0200e-003    | 2.6000e-003   | 3.6200e-003 | 0.0000   | 18.2898   | 18.2898   | 3.3000e-003 | 0.0000 | 18.3724 |
| Maximum | 7.1900e-003 | 0.0924 | 0.0494 | 2.0000e-004 | 5.6500e-003   | 2.8200e-003  | 8.4700e-003 | 1.0200e-003    | 2.6000e-003   | 3.6200e-003 | 0.0000   | 18.2898   | 18.2898   | 3.3000e-003 | 0.0000 | 18.3724 |

**Mitigated Construction**

|         | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Year    | tons/yr     |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |         |
| 2021    | 7.1900e-003 | 0.0924 | 0.0494 | 2.0000e-004 | 5.6500e-003   | 2.8200e-003  | 8.4700e-003 | 1.0200e-003    | 2.6000e-003   | 3.6200e-003 | 0.0000   | 18.2898   | 18.2898   | 3.3000e-003 | 0.0000 | 18.3724 |
| Maximum | 7.1900e-003 | 0.0924 | 0.0494 | 2.0000e-004 | 5.6500e-003   | 2.8200e-003  | 8.4700e-003 | 1.0200e-003    | 2.6000e-003   | 3.6200e-003 | 0.0000   | 18.2898   | 18.2898   | 3.3000e-003 | 0.0000 | 18.3724 |

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



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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.0989                                       | 0.0989                                     |
|         |            | Highest   | 0.0989                                       | 0.0989                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Grading    | Grading    | 4/1/2021   | 4/21/2021 | 5             | 15       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Grading    | Graders                   | 1      | 4.00        | 187         | 0.41        |
| Grading    | Off-Highway Trucks        | 1      | 4.00        | 402         | 0.38        |
| Grading    | Rollers                   | 2      | 4.00        | 80          | 0.38        |
| Grading    | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Grading    | Excavators                | 0      | 8.00        | 158         | 0.38        |
| Grading    | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Grading    | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Grading    | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading    | 5                       | 10.00              | 4.00               | 200.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 3.1800e-003        | 0.0000             | 3.1800e-003        | 3.4000e-004        | 0.0000             | 3.4000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 6.0900e-003        | 0.0635        | 0.0427        | 1.1000e-004        |                    | 2.7300e-003        | 2.7300e-003        |                    | 2.5100e-003        | 2.5100e-003        | 0.0000        | 9.2849        | 9.2849        | 3.0000e-003        | 0.0000        | 9.3599        |
| <b>Total</b>  | <b>6.0900e-003</b> | <b>0.0635</b> | <b>0.0427</b> | <b>1.1000e-004</b> | <b>3.1800e-003</b> | <b>2.7300e-003</b> | <b>5.9100e-003</b> | <b>3.4000e-004</b> | <b>2.5100e-003</b> | <b>2.8500e-003</b> | <b>0.0000</b> | <b>9.2849</b> | <b>9.2849</b> | <b>3.0000e-003</b> | <b>0.0000</b> | <b>9.3599</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 7.6000e-004        | 0.0255        | 4.3100e-003        | 8.0000e-005        | 1.6800e-003        | 8.0000e-005        | 1.7700e-003        | 4.6000e-004        | 8.0000e-005        | 5.4000e-004        | 0.0000        | 7.6930        | 7.6930        | 2.5000e-004        | 0.0000        | 7.6992        |
| Vendor       | 9.0000e-005        | 3.2800e-003   | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004   | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>1.0900e-003</b> | <b>0.0289</b> | <b>6.7200e-003</b> | <b>1.0000e-004</b> | <b>2.4700e-003</b> | <b>9.0000e-005</b> | <b>2.5600e-003</b> | <b>6.8000e-004</b> | <b>9.0000e-005</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>9.0050</b> | <b>9.0050</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>9.0124</b> |

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**3.2 Grading - 2021**

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 3.1800e-003        | 0.0000             | 3.1800e-003        | 3.4000e-004        | 0.0000             | 3.4000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 6.0900e-003        | 0.0635        | 0.0427        | 1.1000e-004        |                    | 2.7300e-003        | 2.7300e-003        |                    | 2.5100e-003        | 2.5100e-003        | 0.0000        | 9.2849        | 9.2849        | 3.0000e-003        | 0.0000        | 9.3599        |
| <b>Total</b>  | <b>6.0900e-003</b> | <b>0.0635</b> | <b>0.0427</b> | <b>1.1000e-004</b> | <b>3.1800e-003</b> | <b>2.7300e-003</b> | <b>5.9100e-003</b> | <b>3.4000e-004</b> | <b>2.5100e-003</b> | <b>2.8500e-003</b> | <b>0.0000</b> | <b>9.2849</b> | <b>9.2849</b> | <b>3.0000e-003</b> | <b>0.0000</b> | <b>9.3599</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 7.6000e-004        | 0.0255        | 4.3100e-003        | 8.0000e-005        | 1.6800e-003        | 8.0000e-005        | 1.7700e-003        | 4.6000e-004        | 8.0000e-005        | 5.4000e-004        | 0.0000        | 7.6930        | 7.6930        | 2.5000e-004        | 0.0000        | 7.6992        |
| Vendor       | 9.0000e-005        | 3.2800e-003   | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004   | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>1.0900e-003</b> | <b>0.0289</b> | <b>6.7200e-003</b> | <b>1.0000e-004</b> | <b>2.4700e-003</b> | <b>9.0000e-005</b> | <b>2.5600e-003</b> | <b>6.8000e-004</b> | <b>9.0000e-005</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>9.0050</b> | <b>9.0050</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>9.0124</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |
| Unmitigated | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |
| Total     | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Unmitigated | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |
| Unmitigated | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |
| Unmitigated | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Paving**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 6.00 | Acre   | 6.00        | 261,360.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 6,300 ft (1.2 miles)

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.



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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 20.00         | 30.00     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 20.00     |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 18.00         | 10.00     |

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0111        | 0.1153        | 0.1273        | 2.2000e-004        | 1.7400e-003        | 5.8500e-003        | 7.5900e-003        | 4.7000e-004        | 5.3800e-003        | 5.8600e-003        | 0.0000        | 19.4093        | 19.4093        | 5.3000e-003        | 0.0000        | 19.5419        |
| <b>Maximum</b> | <b>0.0111</b> | <b>0.1153</b> | <b>0.1273</b> | <b>2.2000e-004</b> | <b>1.7400e-003</b> | <b>5.8500e-003</b> | <b>7.5900e-003</b> | <b>4.7000e-004</b> | <b>5.3800e-003</b> | <b>5.8600e-003</b> | <b>0.0000</b> | <b>19.4093</b> | <b>19.4093</b> | <b>5.3000e-003</b> | <b>0.0000</b> | <b>19.5419</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0111        | 0.1153        | 0.1273        | 2.2000e-004        | 1.7400e-003        | 5.8500e-003        | 7.5900e-003        | 4.7000e-004        | 5.3800e-003        | 5.8600e-003        | 0.0000        | 19.4093        | 19.4093        | 5.3000e-003        | 0.0000        | 19.5419        |
| <b>Maximum</b> | <b>0.0111</b> | <b>0.1153</b> | <b>0.1273</b> | <b>2.2000e-004</b> | <b>1.7400e-003</b> | <b>5.8500e-003</b> | <b>7.5900e-003</b> | <b>4.7000e-004</b> | <b>5.3800e-003</b> | <b>5.8600e-003</b> | <b>0.0000</b> | <b>19.4093</b> | <b>19.4093</b> | <b>5.3000e-003</b> | <b>0.0000</b> | <b>19.5419</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.1263                                       | 0.1263                                     |
|         |            | Highest   | 0.1263                                       | 0.1263                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 2.4600e-003   | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 1.1000e-004    | 1.1000e-004    | 0.0000             | 0.0000             | 1.1000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 0.0102        | 0.0679        | 0.1091        | 4.4000e-004        | 0.0333        | 3.1000e-004        | 0.0336        | 8.9600e-003        | 2.9000e-004        | 9.2500e-003        | 0.0000        | 40.6672        | 40.6672        | 1.4700e-003        | 0.0000             | 40.7039        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.1056        | 0.0000         | 0.1056         | 6.2400e-003        | 0.0000             | 0.2615         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 9.0091         | 9.0091         | 3.3000e-004        | 7.0000e-005        | 9.0377         |
| <b>Total</b> | <b>0.0127</b> | <b>0.0679</b> | <b>0.1092</b> | <b>4.4000e-004</b> | <b>0.0333</b> | <b>3.1000e-004</b> | <b>0.0336</b> | <b>8.9600e-003</b> | <b>2.9000e-004</b> | <b>9.2500e-003</b> | <b>0.1056</b> | <b>49.6765</b> | <b>49.7821</b> | <b>8.0400e-003</b> | <b>7.0000e-005</b> | <b>50.0032</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Paving     | Paving     | 4/1/2021   | 5/12/2021 | 5             | 30       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Paving     | Pavers                    | 1      | 4.00        | 130         | 0.42        |
| Paving     | Paving Equipment          | 2      | 4.00        | 132         | 0.36        |
| Paving     | Rollers                   | 2      | 4.00        | 80          | 0.38        |
| Paving     | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Paving     | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Paving     | Pavers                    | 0      | 8.00        | 130         | 0.42        |
| Paving     | Paving Equipment          | 0      | 8.00        | 132         | 0.36        |
| Paving     | Rollers                   | 0      | 8.00        | 80          | 0.38        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Paving     | 7                       | 10.00              | 4.00               | 20.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Paving - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0104        | 0.1059        | 0.1220        | 1.8000e-004        |               | 5.8200e-003        | 5.8200e-003        |                | 5.3500e-003        | 5.3500e-003        | 0.0000        | 16.0160        | 16.0160        | 5.1800e-003        | 0.0000        | 16.1455        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0104</b> | <b>0.1059</b> | <b>0.1220</b> | <b>1.8000e-004</b> |               | <b>5.8200e-003</b> | <b>5.8200e-003</b> |                | <b>5.3500e-003</b> | <b>5.3500e-003</b> | <b>0.0000</b> | <b>16.0160</b> | <b>16.0160</b> | <b>5.1800e-003</b> | <b>0.0000</b> | <b>16.1455</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 8.0000e-005        | 2.5500e-003        | 4.3000e-004        | 1.0000e-005        | 1.7000e-004        | 1.0000e-005        | 1.8000e-004        | 5.0000e-005        | 1.0000e-005        | 5.0000e-005        | 0.0000        | 0.7693        | 0.7693        | 2.0000e-005        | 0.0000        | 0.7699        |
| Vendor       | 1.9000e-004        | 6.5500e-003        | 1.2500e-003        | 2.0000e-005        | 3.9000e-004        | 1.0000e-005        | 4.1000e-004        | 1.1000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.6431        | 1.6431        | 8.0000e-005        | 0.0000        | 1.6450        |
| Worker       | 4.8000e-004        | 3.3000e-004        | 3.5600e-003        | 1.0000e-005        | 1.1800e-003        | 1.0000e-005        | 1.1900e-003        | 3.1000e-004        | 1.0000e-005        | 3.2000e-004        | 0.0000        | 0.9809        | 0.9809        | 2.0000e-005        | 0.0000        | 0.9815        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>9.4300e-003</b> | <b>5.2400e-003</b> | <b>4.0000e-005</b> | <b>1.7400e-003</b> | <b>3.0000e-005</b> | <b>1.7800e-003</b> | <b>4.7000e-004</b> | <b>3.0000e-005</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>3.3933</b> | <b>3.3933</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>3.3964</b> |

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**3.2 Paving - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0104        | 0.1059        | 0.1220        | 1.8000e-004        |               | 5.8200e-003        | 5.8200e-003        |                | 5.3500e-003        | 5.3500e-003        | 0.0000        | 16.0160        | 16.0160        | 5.1800e-003        | 0.0000        | 16.1455        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0104</b> | <b>0.1059</b> | <b>0.1220</b> | <b>1.8000e-004</b> |               | <b>5.8200e-003</b> | <b>5.8200e-003</b> |                | <b>5.3500e-003</b> | <b>5.3500e-003</b> | <b>0.0000</b> | <b>16.0160</b> | <b>16.0160</b> | <b>5.1800e-003</b> | <b>0.0000</b> | <b>16.1455</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 8.0000e-005        | 2.5500e-003        | 4.3000e-004        | 1.0000e-005        | 1.7000e-004        | 1.0000e-005        | 1.8000e-004        | 5.0000e-005        | 1.0000e-005        | 5.0000e-005        | 0.0000        | 0.7693        | 0.7693        | 2.0000e-005        | 0.0000        | 0.7699        |
| Vendor       | 1.9000e-004        | 6.5500e-003        | 1.2500e-003        | 2.0000e-005        | 3.9000e-004        | 1.0000e-005        | 4.1000e-004        | 1.1000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.6431        | 1.6431        | 8.0000e-005        | 0.0000        | 1.6450        |
| Worker       | 4.8000e-004        | 3.3000e-004        | 3.5600e-003        | 1.0000e-005        | 1.1800e-003        | 1.0000e-005        | 1.1900e-003        | 3.1000e-004        | 1.0000e-005        | 3.2000e-004        | 0.0000        | 0.9809        | 0.9809        | 2.0000e-005        | 0.0000        | 0.9815        |
| <b>Total</b> | <b>7.5000e-004</b> | <b>9.4300e-003</b> | <b>5.2400e-003</b> | <b>4.0000e-005</b> | <b>1.7400e-003</b> | <b>3.0000e-005</b> | <b>1.7800e-003</b> | <b>4.7000e-004</b> | <b>3.0000e-005</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>3.3933</b> | <b>3.3933</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>3.3964</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |
| Unmitigated | 0.0102  | 0.0679 | 0.1091 | 4.4000e-004 | 0.0333        | 3.1000e-004  | 0.0336     | 8.9600e-003    | 2.9000e-004   | 9.2500e-003 | 0.0000   | 40.6672   | 40.6672   | 1.4700e-003 | 0.0000 | 40.7039 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |
| Total     | 11.34                   | 136.50   | 100.44 | 89,554      | 89,554     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |
| Unmitigated | 2.4600e-003 | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.1000e-004 | 1.1000e-004 | 0.0000 | 0.0000 | 1.1000e-004 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 2.4600e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.1000e-004        | 1.1000e-004        | 0.0000        | 0.0000        | 1.1000e-004        |
| <b>Total</b>          | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.1000e-004</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |
| Unmitigated | 9.0091    | 3.3000e-004 | 7.0000e-005 | 9.0377 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 7.14889        | 9.0091        | 3.3000e-004        | 7.0000e-005        | 9.0377        |
| <b>Total</b> |                    | <b>9.0091</b> | <b>3.3000e-004</b> | <b>7.0000e-005</b> | <b>9.0377</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |
| Unmitigated | 0.1056    | 6.2400e-003 | 0.0000 | 0.2615 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.52           | 0.1056        | 6.2400e-003        | 0.0000        | 0.2615        |
| <b>Total</b> |                | <b>0.1056</b> | <b>6.2400e-003</b> | <b>0.0000</b> | <b>0.2615</b> |

**9.0 Operational Offroad**

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



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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment A\_Planting**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 1.00          | 20.00     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 1.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 4.2900e-003        | 0.0361        | 0.0317        | 9.0000e-005        | 7.9000e-004        | 1.5300e-003        | 2.3200e-003        | 2.1000e-004        | 1.4100e-003        | 1.6200e-003        | 0.0000        | 7.8566        | 7.8566        | 2.3300e-003        | 0.0000        | 7.9149        |
| <b>Maximum</b> | <b>4.2900e-003</b> | <b>0.0361</b> | <b>0.0317</b> | <b>9.0000e-005</b> | <b>7.9000e-004</b> | <b>1.5300e-003</b> | <b>2.3200e-003</b> | <b>2.1000e-004</b> | <b>1.4100e-003</b> | <b>1.6200e-003</b> | <b>0.0000</b> | <b>7.8566</b> | <b>7.8566</b> | <b>2.3300e-003</b> | <b>0.0000</b> | <b>7.9149</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 4.2900e-003        | 0.0361        | 0.0317        | 9.0000e-005        | 7.9000e-004        | 1.5300e-003        | 2.3200e-003        | 2.1000e-004        | 1.4100e-003        | 1.6200e-003        | 0.0000        | 7.8565        | 7.8565        | 2.3300e-003        | 0.0000        | 7.9149        |
| <b>Maximum</b> | <b>4.2900e-003</b> | <b>0.0361</b> | <b>0.0317</b> | <b>9.0000e-005</b> | <b>7.9000e-004</b> | <b>1.5300e-003</b> | <b>2.3200e-003</b> | <b>2.1000e-004</b> | <b>1.4100e-003</b> | <b>1.6200e-003</b> | <b>0.0000</b> | <b>7.8565</b> | <b>7.8565</b> | <b>2.3300e-003</b> | <b>0.0000</b> | <b>7.9149</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.0404                                       | 0.0404                                     |
|         |            | Highest   | 0.0404                                       | 0.0404                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name       | Phase Type       | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation | Site Preparation | 4/1/2021   | 4/28/2021 | 5             | 20       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name       | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Off-Highway Trucks        | 1      | 4.00        | 402         | 0.38        |
| Site Preparation | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Site Preparation | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Site Preparation | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name       | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 2                       | 10.00              | 0.00               | 1.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.9700e-003        | 0.0358        | 0.0293        | 8.0000e-005        |               | 1.5200e-003        | 1.5200e-003        |                | 1.4000e-003        | 1.4000e-003        | 0.0000        | 7.1641        | 7.1641        | 2.3200e-003        | 0.0000        | 7.2221        |
| <b>Total</b>  | <b>3.9700e-003</b> | <b>0.0358</b> | <b>0.0293</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>1.5200e-003</b> | <b>1.5200e-003</b> | <b>0.0000</b>  | <b>1.4000e-003</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>7.1641</b> | <b>7.1641</b> | <b>2.3200e-003</b> | <b>0.0000</b> | <b>7.2221</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>3.2000e-004</b> | <b>3.5000e-004</b> | <b>2.3900e-003</b> | <b>1.0000e-005</b> | <b>8.0000e-004</b> | <b>1.0000e-005</b> | <b>8.0000e-004</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>0.6924</b> | <b>0.6924</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.6928</b> |



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**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.9700e-003        | 0.0358        | 0.0293        | 8.0000e-005        |               | 1.5200e-003        | 1.5200e-003        |                | 1.4000e-003        | 1.4000e-003        | 0.0000        | 7.1641        | 7.1641        | 2.3200e-003        | 0.0000        | 7.2221        |
| <b>Total</b>  | <b>3.9700e-003</b> | <b>0.0358</b> | <b>0.0293</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>1.5200e-003</b> | <b>1.5200e-003</b> | <b>0.0000</b>  | <b>1.4000e-003</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>7.1641</b> | <b>7.1641</b> | <b>2.3200e-003</b> | <b>0.0000</b> | <b>7.2221</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>3.2000e-004</b> | <b>3.5000e-004</b> | <b>2.3900e-003</b> | <b>1.0000e-005</b> | <b>8.0000e-004</b> | <b>1.0000e-005</b> | <b>8.0000e-004</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>0.6924</b> | <b>0.6924</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.6928</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Annual

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

### 7.2 Water by Land Use

#### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |



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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Annual

**Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Annual

| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 40.00     |
| tblOffRoadEquipment       | HorsePower                 | 221.00        | 231.00    |
| tblOffRoadEquipment       | HorsePower                 | 158.00        | 89.00     |
| tblOffRoadEquipment       | LoadFactor                 | 0.50          | 0.29      |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.20      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 8.00      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0254        | 0.2535        | 0.2154        | 4.9000e-004        | 2.1600e-003        | 0.0118        | 0.0140        | 5.9000e-004        | 0.0109        | 0.0115        | 0.0000        | 43.3553        | 43.3553        | 0.0129        | 0.0000        | 43.6769        |
| <b>Maximum</b> | <b>0.0254</b> | <b>0.2535</b> | <b>0.2154</b> | <b>4.9000e-004</b> | <b>2.1600e-003</b> | <b>0.0118</b> | <b>0.0140</b> | <b>5.9000e-004</b> | <b>0.0109</b> | <b>0.0115</b> | <b>0.0000</b> | <b>43.3553</b> | <b>43.3553</b> | <b>0.0129</b> | <b>0.0000</b> | <b>43.6769</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| 2021           | 0.0254        | 0.2535        | 0.2154        | 4.9000e-004        | 2.1600e-003        | 0.0118        | 0.0140        | 5.9000e-004        | 0.0109        | 0.0115        | 0.0000        | 43.3553        | 43.3553        | 0.0129        | 0.0000        | 43.6769        |
| <b>Maximum</b> | <b>0.0254</b> | <b>0.2535</b> | <b>0.2154</b> | <b>4.9000e-004</b> | <b>2.1600e-003</b> | <b>0.0118</b> | <b>0.0140</b> | <b>5.9000e-004</b> | <b>0.0109</b> | <b>0.0115</b> | <b>0.0000</b> | <b>43.3553</b> | <b>43.3553</b> | <b>0.0129</b> | <b>0.0000</b> | <b>43.6769</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.2788                                       | 0.2788                                     |
|         |            | Highest   | 0.2788                                       | 0.2788                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 4/1/2021   | 5/26/2021 | 5             | 40       |                   |

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Bore/Drill Rigs           | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Excavators                | 1      | 4.00        | 89          | 0.20        |
| Building Construction | Off-Highway Trucks        | 1      | 4.00        | 402         | 0.38        |
| Building Construction | Paving Equipment          | 2      | 4.00        | 132         | 0.36        |
| Building Construction | Plate Compactors          | 2      | 2.00        | 8           | 0.43        |
| Building Construction | Rollers                   | 1      | 4.00        | 80          | 0.38        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 12                      | 10.00              | 4.00               | 8.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0245        | 0.2433        | 0.2088        | 4.5000e-004        |               | 0.0118        | 0.0118        |                | 0.0108        | 0.0108        | 0.0000        | 39.5489        | 39.5489        | 0.0127        | 0.0000        | 39.8670        |
| <b>Total</b> | <b>0.0245</b> | <b>0.2433</b> | <b>0.2088</b> | <b>4.5000e-004</b> |               | <b>0.0118</b> | <b>0.0118</b> |                | <b>0.0108</b> | <b>0.0108</b> | <b>0.0000</b> | <b>39.5489</b> | <b>39.5489</b> | <b>0.0127</b> | <b>0.0000</b> | <b>39.8670</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 3.0000e-005        | 1.0200e-003   | 1.7000e-004        | 0.0000             | 7.0000e-005        | 0.0000             | 7.0000e-005        | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000        | 0.3077        | 0.3077        | 1.0000e-005        | 0.0000        | 0.3080        |
| Vendor       | 2.5000e-004        | 8.7300e-003   | 1.6700e-003        | 2.0000e-005        | 5.2000e-004        | 2.0000e-005        | 5.4000e-004        | 1.5000e-004        | 2.0000e-005        | 1.7000e-004        | 0.0000        | 2.1908        | 2.1908        | 1.0000e-004        | 0.0000        | 2.1933        |
| Worker       | 6.4000e-004        | 4.3000e-004   | 4.7500e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.3079        | 1.3079        | 3.0000e-005        | 0.0000        | 1.3086        |
| <b>Total</b> | <b>9.2000e-004</b> | <b>0.0102</b> | <b>6.5900e-003</b> | <b>3.0000e-005</b> | <b>2.1600e-003</b> | <b>3.0000e-005</b> | <b>2.1900e-003</b> | <b>5.9000e-004</b> | <b>3.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>3.8064</b> | <b>3.8064</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>3.8099</b> |

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0245        | 0.2433        | 0.2088        | 4.5000e-004        |               | 0.0118        | 0.0118        |                | 0.0108        | 0.0108        | 0.0000        | 39.5489        | 39.5489        | 0.0127        | 0.0000        | 39.8670        |
| <b>Total</b> | <b>0.0245</b> | <b>0.2433</b> | <b>0.2088</b> | <b>4.5000e-004</b> |               | <b>0.0118</b> | <b>0.0118</b> |                | <b>0.0108</b> | <b>0.0108</b> | <b>0.0000</b> | <b>39.5489</b> | <b>39.5489</b> | <b>0.0127</b> | <b>0.0000</b> | <b>39.8670</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 3.0000e-005        | 1.0200e-003   | 1.7000e-004        | 0.0000             | 7.0000e-005        | 0.0000             | 7.0000e-005        | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000        | 0.3077        | 0.3077        | 1.0000e-005        | 0.0000        | 0.3080        |
| Vendor       | 2.5000e-004        | 8.7300e-003   | 1.6700e-003        | 2.0000e-005        | 5.2000e-004        | 2.0000e-005        | 5.4000e-004        | 1.5000e-004        | 2.0000e-005        | 1.7000e-004        | 0.0000        | 2.1908        | 2.1908        | 1.0000e-004        | 0.0000        | 2.1933        |
| Worker       | 6.4000e-004        | 4.3000e-004   | 4.7500e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.3079        | 1.3079        | 3.0000e-005        | 0.0000        | 1.3086        |
| <b>Total</b> | <b>9.2000e-004</b> | <b>0.0102</b> | <b>6.5900e-003</b> | <b>3.0000e-005</b> | <b>2.1600e-003</b> | <b>3.0000e-005</b> | <b>2.1900e-003</b> | <b>5.9000e-004</b> | <b>3.0000e-005</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>3.8064</b> | <b>3.8064</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>3.8099</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Annual

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_New Bridge 13**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Notes

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, August 2014.

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 40.00     |
| tblOffRoadEquipment       | HorsePower                 | 221.00        | 89.00     |
| tblOffRoadEquipment       | HorsePower                 | 158.00        | 97.00     |
| tblOffRoadEquipment       | LoadFactor                 | 0.50          | 0.20      |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.37      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | UsageHours                 | 4.00          | 8.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 3.00      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0271        | 0.2795        | 0.2483        | 4.7000e-004        | 2.1200e-003        | 0.0136        | 0.0157        | 5.8000e-004        | 0.0128        | 0.0134        | 0.0000        | 40.9077        | 40.9077        | 9.1600e-003        | 0.0000        | 41.1367        |
| <b>Maximum</b> | <b>0.0271</b> | <b>0.2795</b> | <b>0.2483</b> | <b>4.7000e-004</b> | <b>2.1200e-003</b> | <b>0.0136</b> | <b>0.0157</b> | <b>5.8000e-004</b> | <b>0.0128</b> | <b>0.0134</b> | <b>0.0000</b> | <b>40.9077</b> | <b>40.9077</b> | <b>9.1600e-003</b> | <b>0.0000</b> | <b>41.1367</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0271        | 0.2795        | 0.2483        | 4.7000e-004        | 2.1200e-003        | 0.0136        | 0.0157        | 5.8000e-004        | 0.0128        | 0.0134        | 0.0000        | 40.9077        | 40.9077        | 9.1600e-003        | 0.0000        | 41.1366        |
| <b>Maximum</b> | <b>0.0271</b> | <b>0.2795</b> | <b>0.2483</b> | <b>4.7000e-004</b> | <b>2.1200e-003</b> | <b>0.0136</b> | <b>0.0157</b> | <b>5.8000e-004</b> | <b>0.0128</b> | <b>0.0134</b> | <b>0.0000</b> | <b>40.9077</b> | <b>40.9077</b> | <b>9.1600e-003</b> | <b>0.0000</b> | <b>41.1366</b> |

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



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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.3065                                       | 0.3065                                     |
|         |            | Highest   | 0.3065                                       | 0.3065                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 5/1/2021   | 6/25/2021 | 5             | 40       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Bore/Drill Rigs           | 1      | 8.00        | 89          | 0.20        |
| Building Construction | Cranes                    | 1      | 8.00        | 231         | 0.29        |
| Building Construction | Excavators                | 1      | 8.00        | 97          | 0.37        |
| Building Construction | Forklifts                 | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Paving Equipment          | 1      | 2.00        | 132         | 0.36        |
| Building Construction | Pumps                     | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Rollers                   | 1      | 4.80        | 80          | 0.38        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 4.80        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 7                       | 10.00              | 4.00               | 3.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0262        | 0.2700        | 0.2418        | 4.3000e-004        |               | 0.0136        | 0.0136        |                | 0.0128        | 0.0128        | 0.0000        | 37.2937        | 37.2937        | 9.0200e-003        | 0.0000        | 37.5192        |
| <b>Total</b> | <b>0.0262</b> | <b>0.2700</b> | <b>0.2418</b> | <b>4.3000e-004</b> |               | <b>0.0136</b> | <b>0.0136</b> |                | <b>0.0128</b> | <b>0.0128</b> | <b>0.0000</b> | <b>37.2937</b> | <b>37.2937</b> | <b>9.0200e-003</b> | <b>0.0000</b> | <b>37.5192</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 3.8000e-004        | 6.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000             | 3.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1154        | 0.1154        | 0.0000             | 0.0000        | 0.1155        |
| Vendor       | 2.5000e-004        | 8.7300e-003        | 1.6700e-003        | 2.0000e-005        | 5.2000e-004        | 2.0000e-005        | 5.4000e-004        | 1.5000e-004        | 2.0000e-005        | 1.7000e-004        | 0.0000        | 2.1908        | 2.1908        | 1.0000e-004        | 0.0000        | 2.1933        |
| Worker       | 6.4000e-004        | 4.3000e-004        | 4.7500e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.3079        | 1.3079        | 3.0000e-005        | 0.0000        | 1.3086        |
| <b>Total</b> | <b>9.0000e-004</b> | <b>9.5400e-003</b> | <b>6.4800e-003</b> | <b>3.0000e-005</b> | <b>2.1200e-003</b> | <b>3.0000e-005</b> | <b>2.1500e-003</b> | <b>5.8000e-004</b> | <b>3.0000e-005</b> | <b>6.1000e-004</b> | <b>0.0000</b> | <b>3.6141</b> | <b>3.6141</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>3.6174</b> |

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0262        | 0.2700        | 0.2418        | 4.3000e-004        |               | 0.0136        | 0.0136        |                | 0.0128        | 0.0128        | 0.0000        | 37.2936        | 37.2936        | 9.0200e-003        | 0.0000        | 37.5192        |
| <b>Total</b> | <b>0.0262</b> | <b>0.2700</b> | <b>0.2418</b> | <b>4.3000e-004</b> |               | <b>0.0136</b> | <b>0.0136</b> |                | <b>0.0128</b> | <b>0.0128</b> | <b>0.0000</b> | <b>37.2936</b> | <b>37.2936</b> | <b>9.0200e-003</b> | <b>0.0000</b> | <b>37.5192</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 3.8000e-004        | 6.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000             | 3.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.1154        | 0.1154        | 0.0000             | 0.0000        | 0.1155        |
| Vendor       | 2.5000e-004        | 8.7300e-003        | 1.6700e-003        | 2.0000e-005        | 5.2000e-004        | 2.0000e-005        | 5.4000e-004        | 1.5000e-004        | 2.0000e-005        | 1.7000e-004        | 0.0000        | 2.1908        | 2.1908        | 1.0000e-004        | 0.0000        | 2.1933        |
| Worker       | 6.4000e-004        | 4.3000e-004        | 4.7500e-003        | 1.0000e-005        | 1.5700e-003        | 1.0000e-005        | 1.5800e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.3079        | 1.3079        | 3.0000e-005        | 0.0000        | 1.3086        |
| <b>Total</b> | <b>9.0000e-004</b> | <b>9.5400e-003</b> | <b>6.4800e-003</b> | <b>3.0000e-005</b> | <b>2.1200e-003</b> | <b>3.0000e-005</b> | <b>2.1500e-003</b> | <b>5.8000e-004</b> | <b>3.0000e-005</b> | <b>6.1000e-004</b> | <b>0.0000</b> | <b>3.6141</b> | <b>3.6141</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>3.6174</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Clearing and Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Clearing and Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 4.00 | Acre   | 4.00        | 174,240.00         | 0          |

**1.2 Other Project Characteristics**

|                                |                    |                                |       |                                  |       |
|--------------------------------|--------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban              | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>            | 2                  |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Roseville Electric |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 793.8              | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B provided by Psomas, August 2014.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, August 2014.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)



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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 8.00          | 15.00     |
| tblGrading                | AcresOfGrading             | 3.75          | 4.00      |
| tblOffRoadEquipment       | HorsePower                 | 172.00        | 88.00     |
| tblOffRoadEquipment       | HorsePower                 | 80.00         | 247.00    |
| tblOffRoadEquipment       | LoadFactor                 | 0.42          | 0.34      |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.40      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 1.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.70      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 2.70      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 2.00      |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 25.00         | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Clearing and Grading - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0122        | 0.1278        | 0.0881        | 2.2000e-004        | 2.9200e-003        | 5.8000e-003        | 8.7200e-003        | 4.5000e-004        | 5.3400e-003        | 5.7900e-003        | 0.0000        | 19.6165        | 19.6165        | 5.9500e-003        | 0.0000        | 19.7652        |
| <b>Maximum</b> | <b>0.0122</b> | <b>0.1278</b> | <b>0.0881</b> | <b>2.2000e-004</b> | <b>2.9200e-003</b> | <b>5.8000e-003</b> | <b>8.7200e-003</b> | <b>4.5000e-004</b> | <b>5.3400e-003</b> | <b>5.7900e-003</b> | <b>0.0000</b> | <b>19.6165</b> | <b>19.6165</b> | <b>5.9500e-003</b> | <b>0.0000</b> | <b>19.7652</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0122        | 0.1278        | 0.0881        | 2.2000e-004        | 2.9200e-003        | 5.8000e-003        | 8.7200e-003        | 4.5000e-004        | 5.3400e-003        | 5.7900e-003        | 0.0000        | 19.6165        | 19.6165        | 5.9500e-003        | 0.0000        | 19.7652        |
| <b>Maximum</b> | <b>0.0122</b> | <b>0.1278</b> | <b>0.0881</b> | <b>2.2000e-004</b> | <b>2.9200e-003</b> | <b>5.8000e-003</b> | <b>8.7200e-003</b> | <b>4.5000e-004</b> | <b>5.3400e-003</b> | <b>5.7900e-003</b> | <b>0.0000</b> | <b>19.6165</b> | <b>19.6165</b> | <b>5.9500e-003</b> | <b>0.0000</b> | <b>19.7652</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.1399                                       | 0.1399                                     |
|         |            | Highest   | 0.1399                                       | 0.1399                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Grading    | Grading    | 4/1/2021   | 4/21/2021 | 5             | 15       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type       | Amount | Usage Hours | Horse Power | Load Factor |
|------------|------------------------------|--------|-------------|-------------|-------------|
| Grading    | Excavators                   | 1      | 4.70        | 158         | 0.38        |
| Grading    | Graders                      | 1      | 4.00        | 187         | 0.41        |
| Grading    | Off-Highway Trucks           | 1      | 4.00        | 402         | 0.38        |
| Grading    | Other Construction Equipment | 4      | 4.00        | 88          | 0.34        |
| Grading    | Rollers                      | 2      | 4.00        | 247         | 0.40        |
| Grading    | Rubber Tired Dozers          | 0      | 8.00        | 247         | 0.40        |
| Grading    | Tractors/Loaders/Backhoes    | 1      | 2.70        | 97          | 0.37        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading    | 10                      | 10.00              | 4.00               | 2.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 2.1200e-003        | 0.0000             | 2.1200e-003        | 2.3000e-004        | 0.0000             | 2.3000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0118        | 0.1241        | 0.0857        | 2.1000e-004        |                    | 5.7900e-003        | 5.7900e-003        |                    | 5.3300e-003        | 5.3300e-003        | 0.0000        | 18.2276        | 18.2276        | 5.9000e-003        | 0.0000        | 18.3750        |
| <b>Total</b>  | <b>0.0118</b> | <b>0.1241</b> | <b>0.0857</b> | <b>2.1000e-004</b> | <b>2.1200e-003</b> | <b>5.7900e-003</b> | <b>7.9100e-003</b> | <b>2.3000e-004</b> | <b>5.3300e-003</b> | <b>5.5600e-003</b> | <b>0.0000</b> | <b>18.2276</b> | <b>18.2276</b> | <b>5.9000e-003</b> | <b>0.0000</b> | <b>18.3750</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>3.6900e-003</b> | <b>2.4500e-003</b> | <b>2.0000e-005</b> | <b>8.1000e-004</b> | <b>1.0000e-005</b> | <b>8.1000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.3000e-004</b> | <b>0.0000</b> | <b>1.3889</b> | <b>1.3889</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3902</b> |

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**3.2 Grading - 2021**

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 2.1200e-003        | 0.0000             | 2.1200e-003        | 2.3000e-004        | 0.0000             | 2.3000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0118        | 0.1241        | 0.0857        | 2.1000e-004        |                    | 5.7900e-003        | 5.7900e-003        |                    | 5.3300e-003        | 5.3300e-003        | 0.0000        | 18.2276        | 18.2276        | 5.9000e-003        | 0.0000        | 18.3749        |
| <b>Total</b>  | <b>0.0118</b> | <b>0.1241</b> | <b>0.0857</b> | <b>2.1000e-004</b> | <b>2.1200e-003</b> | <b>5.7900e-003</b> | <b>7.9100e-003</b> | <b>2.3000e-004</b> | <b>5.3300e-003</b> | <b>5.5600e-003</b> | <b>0.0000</b> | <b>18.2276</b> | <b>18.2276</b> | <b>5.9000e-003</b> | <b>0.0000</b> | <b>18.3749</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>3.6900e-003</b> | <b>2.4500e-003</b> | <b>2.0000e-005</b> | <b>8.1000e-004</b> | <b>1.0000e-005</b> | <b>8.1000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.3000e-004</b> | <b>0.0000</b> | <b>1.3889</b> | <b>1.3889</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3902</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr     |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |
| Unmitigated | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |
| Total     | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |
| Unmitigated | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |
| Unmitigated | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |
| Unmitigated | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**9.0 Operational Offroad**

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



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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - No grading

## Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Annual

| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 1.00          | 15.00     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 2.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 13.00         | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 2.9700e-003        | 0.0282        | 0.0291        | 7.0000e-005        | 7.8000e-004        | 1.1400e-003        | 1.9200e-003        | 2.1000e-004        | 1.0500e-003        | 1.2600e-003        | 0.0000        | 6.1913        | 6.1913        | 1.6300e-003        | 0.0000        | 6.2320        |
| <b>Maximum</b> | <b>2.9700e-003</b> | <b>0.0282</b> | <b>0.0291</b> | <b>7.0000e-005</b> | <b>7.8000e-004</b> | <b>1.1400e-003</b> | <b>1.9200e-003</b> | <b>2.1000e-004</b> | <b>1.0500e-003</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>6.1913</b> | <b>6.1913</b> | <b>1.6300e-003</b> | <b>0.0000</b> | <b>6.2320</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 2.9700e-003        | 0.0282        | 0.0291        | 7.0000e-005        | 7.8000e-004        | 1.1400e-003        | 1.9200e-003        | 2.1000e-004        | 1.0500e-003        | 1.2600e-003        | 0.0000        | 6.1913        | 6.1913        | 1.6300e-003        | 0.0000        | 6.2320        |
| <b>Maximum</b> | <b>2.9700e-003</b> | <b>0.0282</b> | <b>0.0291</b> | <b>7.0000e-005</b> | <b>7.8000e-004</b> | <b>1.1400e-003</b> | <b>1.9200e-003</b> | <b>2.1000e-004</b> | <b>1.0500e-003</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>6.1913</b> | <b>6.1913</b> | <b>1.6300e-003</b> | <b>0.0000</b> | <b>6.2320</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.0311                                       | 0.0311                                     |
|         |            | Highest   | 0.0311                                       | 0.0311                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name       | Phase Type       | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation | Site Preparation | 5/1/2021   | 5/21/2021 | 5             | 15       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name       | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Excavators                | 1      | 2.00        | 158         | 0.38        |
| Site Preparation | Off-Highway Trucks        | 1      | 2.00        | 402         | 0.38        |
| Site Preparation | Paving Equipment          | 2      | 2.00        | 132         | 0.36        |
| Site Preparation | Tractors/Loaders/Backhoes | 1      | 2.00        | 97          | 0.37        |
| Site Preparation | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Site Preparation | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name       | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 5                       | 10.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.6400e-003        | 0.0247        | 0.0267        | 6.0000e-005        |               | 1.1300e-003        | 1.1300e-003        |                | 1.0400e-003        | 1.0400e-003        | 0.0000        | 4.8793        | 4.8793        | 1.5800e-003        | 0.0000        | 4.9187        |
| <b>Total</b>  | <b>2.6400e-003</b> | <b>0.0247</b> | <b>0.0267</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.1300e-003</b> | <b>1.1300e-003</b> | <b>0.0000</b>  | <b>1.0400e-003</b> | <b>1.0400e-003</b> | <b>0.0000</b> | <b>4.8793</b> | <b>4.8793</b> | <b>1.5800e-003</b> | <b>0.0000</b> | <b>4.9187</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.3000e-004</b> | <b>3.4400e-003</b> | <b>2.4100e-003</b> | <b>2.0000e-005</b> | <b>7.9000e-004</b> | <b>1.0000e-005</b> | <b>7.9000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>1.3120</b> | <b>1.3120</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3132</b> |



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**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.6400e-003        | 0.0247        | 0.0267        | 6.0000e-005        |               | 1.1300e-003        | 1.1300e-003        |                | 1.0400e-003        | 1.0400e-003        | 0.0000        | 4.8793        | 4.8793        | 1.5800e-003        | 0.0000        | 4.9187        |
| <b>Total</b>  | <b>2.6400e-003</b> | <b>0.0247</b> | <b>0.0267</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.1300e-003</b> | <b>1.1300e-003</b> | <b>0.0000</b>  | <b>1.0400e-003</b> | <b>1.0400e-003</b> | <b>0.0000</b> | <b>4.8793</b> | <b>4.8793</b> | <b>1.5800e-003</b> | <b>0.0000</b> | <b>4.9187</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.3000e-004</b> | <b>3.4400e-003</b> | <b>2.4100e-003</b> | <b>2.0000e-005</b> | <b>7.9000e-004</b> | <b>1.0000e-005</b> | <b>7.9000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>1.3120</b> | <b>1.3120</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3132</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |



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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Finish Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 4.00 | Acre   | 4.00        | 174,240.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, August 2014.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 8.00          | 10.00     |
| tblGrading                | AcresOfGrading             | 2.50          | 4.00      |
| tblOffRoadEquipment       | HorsePower                 | 402.00        | 158.00    |
| tblOffRoadEquipment       | HorsePower                 | 80.00         | 247.00    |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.40      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00          | 1.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 1.00      |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 13.00         | 10.00     |

**2.0 Emissions Summary**

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Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 4.2800e-003        | 0.0496        | 0.0312        | 9.0000e-005        | 2.6500e-003        | 1.7600e-003        | 4.4100e-003        | 3.7000e-004        | 1.6200e-003        | 2.0000e-003        | 0.0000        | 7.9226        | 7.9226        | 2.3000e-003        | 0.0000        | 7.9802        |
| <b>Maximum</b> | <b>4.2800e-003</b> | <b>0.0496</b> | <b>0.0312</b> | <b>9.0000e-005</b> | <b>2.6500e-003</b> | <b>1.7600e-003</b> | <b>4.4100e-003</b> | <b>3.7000e-004</b> | <b>1.6200e-003</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>7.9226</b> | <b>7.9226</b> | <b>2.3000e-003</b> | <b>0.0000</b> | <b>7.9802</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 4.2800e-003        | 0.0496        | 0.0312        | 9.0000e-005        | 2.6500e-003        | 1.7600e-003        | 4.4100e-003        | 3.7000e-004        | 1.6200e-003        | 2.0000e-003        | 0.0000        | 7.9226        | 7.9226        | 2.3000e-003        | 0.0000        | 7.9802        |
| <b>Maximum</b> | <b>4.2800e-003</b> | <b>0.0496</b> | <b>0.0312</b> | <b>9.0000e-005</b> | <b>2.6500e-003</b> | <b>1.7600e-003</b> | <b>4.4100e-003</b> | <b>3.7000e-004</b> | <b>1.6200e-003</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>7.9226</b> | <b>7.9226</b> | <b>2.3000e-003</b> | <b>0.0000</b> | <b>7.9802</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.0539                                       | 0.0539                                     |
|         |            | Highest   | 0.0539                                       | 0.0539                                     |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Grading    | Grading    | 5/1/2021   | 5/14/2021 | 5             | 10       |                   |

Acres of Grading (Site Preparation Phase): 0



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**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Grading    | Excavators                | 0      | 8.00        | 158         | 0.38        |
| Grading    | Graders                   | 1      | 4.00        | 187         | 0.41        |
| Grading    | Off-Highway Trucks        | 1      | 4.00        | 158         | 0.38        |
| Grading    | Rollers                   | 2      | 4.00        | 247         | 0.40        |
| Grading    | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Grading    | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading    | 5                       | 10.00              | 4.00               | 1.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 2.1200e-003        | 0.0000             | 2.1200e-003        | 2.3000e-004        | 0.0000             | 2.3000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.0500e-003        | 0.0472        | 0.0296        | 8.0000e-005        |                    | 1.7500e-003        | 1.7500e-003        |                    | 1.6100e-003        | 1.6100e-003        | 0.0000        | 7.0095        | 7.0095        | 2.2700e-003        | 0.0000        | 7.0662        |
| <b>Total</b>  | <b>4.0500e-003</b> | <b>0.0472</b> | <b>0.0296</b> | <b>8.0000e-005</b> | <b>2.1200e-003</b> | <b>1.7500e-003</b> | <b>3.8700e-003</b> | <b>2.3000e-004</b> | <b>1.6100e-003</b> | <b>1.8400e-003</b> | <b>0.0000</b> | <b>7.0095</b> | <b>7.0095</b> | <b>2.2700e-003</b> | <b>0.0000</b> | <b>7.0662</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 6.0000e-005        | 2.1800e-003        | 4.2000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.4000e-004        | 4.0000e-005        | 0.0000        | 4.0000e-005        | 0.0000        | 0.5477        | 0.5477        | 3.0000e-005        | 0.0000        | 0.5483        |
| Worker       | 1.6000e-004        | 1.1000e-004        | 1.1900e-003        | 0.0000             | 3.9000e-004        | 0.0000        | 4.0000e-004        | 1.0000e-004        | 0.0000        | 1.1000e-004        | 0.0000        | 0.3270        | 0.3270        | 1.0000e-005        | 0.0000        | 0.3272        |
| <b>Total</b> | <b>2.2000e-004</b> | <b>2.4200e-003</b> | <b>1.6300e-003</b> | <b>1.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>5.5000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.9131</b> | <b>0.9131</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.9140</b> |

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**3.2 Grading - 2021**

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 2.1200e-003        | 0.0000             | 2.1200e-003        | 2.3000e-004        | 0.0000             | 2.3000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.0500e-003        | 0.0472        | 0.0296        | 8.0000e-005        |                    | 1.7500e-003        | 1.7500e-003        |                    | 1.6100e-003        | 1.6100e-003        | 0.0000        | 7.0095        | 7.0095        | 2.2700e-003        | 0.0000        | 7.0662        |
| <b>Total</b>  | <b>4.0500e-003</b> | <b>0.0472</b> | <b>0.0296</b> | <b>8.0000e-005</b> | <b>2.1200e-003</b> | <b>1.7500e-003</b> | <b>3.8700e-003</b> | <b>2.3000e-004</b> | <b>1.6100e-003</b> | <b>1.8400e-003</b> | <b>0.0000</b> | <b>7.0095</b> | <b>7.0095</b> | <b>2.2700e-003</b> | <b>0.0000</b> | <b>7.0662</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 6.0000e-005        | 2.1800e-003        | 4.2000e-004        | 1.0000e-005        | 1.3000e-004        | 0.0000        | 1.4000e-004        | 4.0000e-005        | 0.0000        | 4.0000e-005        | 0.0000        | 0.5477        | 0.5477        | 3.0000e-005        | 0.0000        | 0.5483        |
| Worker       | 1.6000e-004        | 1.1000e-004        | 1.1900e-003        | 0.0000             | 3.9000e-004        | 0.0000        | 4.0000e-004        | 1.0000e-004        | 0.0000        | 1.1000e-004        | 0.0000        | 0.3270        | 0.3270        | 1.0000e-005        | 0.0000        | 0.3272        |
| <b>Total</b> | <b>2.2000e-004</b> | <b>2.4200e-003</b> | <b>1.6300e-003</b> | <b>1.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>5.5000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.9131</b> | <b>0.9131</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.9140</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr     |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |
| Unmitigated | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |
| Total     | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |
| Unmitigated | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |



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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |
| Unmitigated | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |

### 7.2 Water by Land Use

#### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |
| Unmitigated | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Paving**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 4.00 | Acre   | 4.00        | 174,240.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, August 2014.

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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 18.00         | 20.00     |
| tblOffRoadEquipment       | HorsePower                 | 130.00        | 9.00      |
| tblOffRoadEquipment       | HorsePower                 | 97.00         | 130.00    |
| tblOffRoadEquipment       | LoadFactor                 | 0.42          | 0.56      |
| tblOffRoadEquipment       | LoadFactor                 | 0.37          | 0.42      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblOffRoadEquipment       | UsageHours                 | 6.00          | 4.00      |
| tblOffRoadEquipment       | UsageHours                 | 6.00          | 4.80      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.80      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 10.00     |
| tblTripsAndVMT            | VendorTripNumber           | 0.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 18.00         | 10.00     |

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 6.8900e-003        | 0.0698        | 0.0806        | 1.4000e-004        | 1.1300e-003        | 3.5500e-003        | 4.6800e-003        | 3.1000e-004        | 3.2700e-003        | 3.5700e-003        | 0.0000        | 12.2939        | 12.2939        | 3.3600e-003        | 0.0000        | 12.3781        |
| <b>Maximum</b> | <b>6.8900e-003</b> | <b>0.0698</b> | <b>0.0806</b> | <b>1.4000e-004</b> | <b>1.1300e-003</b> | <b>3.5500e-003</b> | <b>4.6800e-003</b> | <b>3.1000e-004</b> | <b>3.2700e-003</b> | <b>3.5700e-003</b> | <b>0.0000</b> | <b>12.2939</b> | <b>12.2939</b> | <b>3.3600e-003</b> | <b>0.0000</b> | <b>12.3781</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| 2021           | 6.8900e-003        | 0.0698        | 0.0806        | 1.4000e-004        | 1.1300e-003        | 3.5500e-003        | 4.6800e-003        | 3.1000e-004        | 3.2700e-003        | 3.5700e-003        | 0.0000        | 12.2939        | 12.2939        | 3.3600e-003        | 0.0000        | 12.3780        |
| <b>Maximum</b> | <b>6.8900e-003</b> | <b>0.0698</b> | <b>0.0806</b> | <b>1.4000e-004</b> | <b>1.1300e-003</b> | <b>3.5500e-003</b> | <b>4.6800e-003</b> | <b>3.1000e-004</b> | <b>3.2700e-003</b> | <b>3.5700e-003</b> | <b>0.0000</b> | <b>12.2939</b> | <b>12.2939</b> | <b>3.3600e-003</b> | <b>0.0000</b> | <b>12.3780</b> |

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



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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.0766                                       | 0.0766                                     |
|         |            | Highest   | 0.0766                                       | 0.0766                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Paving     | Paving     | 5/1/2021   | 5/28/2021 | 5             | 20       |                   |

Acres of Grading (Site Preparation Phase): 0

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Paving     | Cement and Mortar Mixers  | 0      | 6.00        | 9           | 0.56        |
| Paving     | Pavers                    | 1      | 4.80        | 9           | 0.56        |
| Paving     | Paving Equipment          | 2      | 4.00        | 132         | 0.36        |
| Paving     | Rollers                   | 2      | 4.80        | 80          | 0.38        |
| Paving     | Tractors/Loaders/Backhoes | 1      | 4.80        | 130         | 0.42        |
| Paving     | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Paving     | 7                       | 10.00              | 4.00               | 10.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Paving - 2021**

**Unmitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.4100e-003        | 0.0639        | 0.0771        | 1.2000e-004        |               | 3.5300e-003        | 3.5300e-003        |                | 3.2500e-003        | 3.2500e-003        | 0.0000        | 10.1600        | 10.1600        | 3.2900e-003        | 0.0000        | 10.2421        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>6.4100e-003</b> | <b>0.0639</b> | <b>0.0771</b> | <b>1.2000e-004</b> |               | <b>3.5300e-003</b> | <b>3.5300e-003</b> |                | <b>3.2500e-003</b> | <b>3.2500e-003</b> | <b>0.0000</b> | <b>10.1600</b> | <b>10.1600</b> | <b>3.2900e-003</b> | <b>0.0000</b> | <b>10.2421</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 4.0000e-005        | 1.2700e-003        | 2.2000e-004        | 0.0000             | 8.0000e-005        | 0.0000             | 9.0000e-005        | 2.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.3847        | 0.3847        | 1.0000e-005        | 0.0000        | 0.3850        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.8000e-004</b> | <b>5.8600e-003</b> | <b>3.4200e-003</b> | <b>2.0000e-005</b> | <b>1.1300e-003</b> | <b>2.0000e-005</b> | <b>1.1500e-003</b> | <b>3.1000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>2.1340</b> | <b>2.1340</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.1359</b> |

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**3.2 Paving - 2021**

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.4100e-003        | 0.0639        | 0.0771        | 1.2000e-004        |               | 3.5300e-003        | 3.5300e-003        |                | 3.2500e-003        | 3.2500e-003        | 0.0000        | 10.1600        | 10.1600        | 3.2900e-003        | 0.0000        | 10.2421        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>6.4100e-003</b> | <b>0.0639</b> | <b>0.0771</b> | <b>1.2000e-004</b> |               | <b>3.5300e-003</b> | <b>3.5300e-003</b> |                | <b>3.2500e-003</b> | <b>3.2500e-003</b> | <b>0.0000</b> | <b>10.1600</b> | <b>10.1600</b> | <b>3.2900e-003</b> | <b>0.0000</b> | <b>10.2421</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 4.0000e-005        | 1.2700e-003        | 2.2000e-004        | 0.0000             | 8.0000e-005        | 0.0000             | 9.0000e-005        | 2.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.3847        | 0.3847        | 1.0000e-005        | 0.0000        | 0.3850        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.8000e-004</b> | <b>5.8600e-003</b> | <b>3.4200e-003</b> | <b>2.0000e-005</b> | <b>1.1300e-003</b> | <b>2.0000e-005</b> | <b>1.1500e-003</b> | <b>3.1000e-004</b> | <b>1.0000e-005</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>2.1340</b> | <b>2.1340</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.1359</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr     |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |
| Unmitigated | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |
| Total     | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Natural Gas Mitigated   | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Natural Gas Unmitigated | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |
| Unmitigated | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |
| Unmitigated | 6.0061    | 2.2000e-004 | 5.0000e-005 | 6.0251 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 4.76593        | 6.0061        | 2.2000e-004        | 5.0000e-005        | 6.0251        |
| <b>Total</b> |                    | <b>6.0061</b> | <b>2.2000e-004</b> | <b>5.0000e-005</b> | <b>6.0251</b> |

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
|             | MT/yr     |             |        |        |
| Mitigated   | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |
| Unmitigated | 0.0690    | 4.0800e-003 | 0.0000 | 0.1710 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**Mitigated**

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.34           | 0.0690        | 4.0800e-003        | 0.0000        | 0.1710        |
| <b>Total</b> |                | <b>0.0690</b> | <b>4.0800e-003</b> | <b>0.0000</b> | <b>0.1710</b> |

**9.0 Operational Offroad**

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

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control  
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**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - No grading



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| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 1.00          | 15.00     |
| tblOffRoadEquipment       | HorsePower                 | 402.00        | 124.00    |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.44      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 1.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 1.9500e-003        | 0.0155        | 0.0223        | 4.0000e-005        | 6.0000e-004        | 8.3000e-004        | 1.4300e-003        | 1.6000e-004        | 7.7000e-004        | 9.2000e-004        | 0.0000        | 3.0921        | 3.0921        | 8.4000e-004        | 0.0000        | 3.1131        |
| <b>Maximum</b> | <b>1.9500e-003</b> | <b>0.0155</b> | <b>0.0223</b> | <b>4.0000e-005</b> | <b>6.0000e-004</b> | <b>8.3000e-004</b> | <b>1.4300e-003</b> | <b>1.6000e-004</b> | <b>7.7000e-004</b> | <b>9.2000e-004</b> | <b>0.0000</b> | <b>3.0921</b> | <b>3.0921</b> | <b>8.4000e-004</b> | <b>0.0000</b> | <b>3.1131</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| 2021           | 1.9500e-003        | 0.0155        | 0.0223        | 4.0000e-005        | 6.0000e-004        | 8.3000e-004        | 1.4300e-003        | 1.6000e-004        | 7.7000e-004        | 9.2000e-004        | 0.0000        | 3.0921        | 3.0921        | 8.4000e-004        | 0.0000        | 3.1131        |
| <b>Maximum</b> | <b>1.9500e-003</b> | <b>0.0155</b> | <b>0.0223</b> | <b>4.0000e-005</b> | <b>6.0000e-004</b> | <b>8.3000e-004</b> | <b>1.4300e-003</b> | <b>1.6000e-004</b> | <b>7.7000e-004</b> | <b>9.2000e-004</b> | <b>0.0000</b> | <b>3.0921</b> | <b>3.0921</b> | <b>8.4000e-004</b> | <b>0.0000</b> | <b>3.1131</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.0175                                       | 0.0175                                     |
|         |            | Highest   | 0.0175                                       | 0.0175                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name       | Phase Type       | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Site Preparation | Site Preparation | 5/1/2021   | 5/21/2021 | 5             | 15       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name       | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Off-Highway Trucks        | 1      | 4.00        | 124         | 0.44        |
| Site Preparation | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Site Preparation | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Site Preparation | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name       | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 2                       | 10.00              | 0.00               | 1.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.7100e-003        | 0.0152        | 0.0205        | 3.0000e-005        |               | 8.3000e-004        | 8.3000e-004        |                | 7.6000e-004        | 7.6000e-004        | 0.0000        | 2.5632        | 2.5632        | 8.3000e-004        | 0.0000        | 2.5839        |
| <b>Total</b>  | <b>1.7100e-003</b> | <b>0.0152</b> | <b>0.0205</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>8.3000e-004</b> | <b>8.3000e-004</b> | <b>0.0000</b>  | <b>7.6000e-004</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>2.5632</b> | <b>2.5632</b> | <b>8.3000e-004</b> | <b>0.0000</b> | <b>2.5839</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000        | 5.9000e-004        | 1.6000e-004        | 0.0000        | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>2.4000e-004</b> | <b>2.9000e-004</b> | <b>1.8000e-003</b> | <b>1.0000e-005</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>6.0000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>0.5289</b> | <b>0.5289</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.5292</b> |

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**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.7100e-003        | 0.0152        | 0.0205        | 3.0000e-005        |               | 8.3000e-004        | 8.3000e-004        |                | 7.6000e-004        | 7.6000e-004        | 0.0000        | 2.5632        | 2.5632        | 8.3000e-004        | 0.0000        | 2.5839        |
| <b>Total</b>  | <b>1.7100e-003</b> | <b>0.0152</b> | <b>0.0205</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>8.3000e-004</b> | <b>8.3000e-004</b> | <b>0.0000</b>  | <b>7.6000e-004</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>2.5632</b> | <b>2.5632</b> | <b>8.3000e-004</b> | <b>0.0000</b> | <b>2.5839</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 1.3000e-004        | 2.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0385        | 0.0385        | 0.0000             | 0.0000        | 0.0385        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000        | 5.9000e-004        | 1.6000e-004        | 0.0000        | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>2.4000e-004</b> | <b>2.9000e-004</b> | <b>1.8000e-003</b> | <b>1.0000e-005</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>6.0000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>0.0000</b> | <b>0.5289</b> | <b>0.5289</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.5292</b> |

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control - Placer County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control - Placer County APCD Air District, Annual

|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

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**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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



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## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 0.25 | Acre   | 0.25        | 10,890.00          | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, August 2014.

## Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

| Table Name                | Column Name                | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblConstructionPhase      | NumDays                    | 100.00        | 20.00     |
| tblOffRoadEquipment       | HorsePower                 | 158.00        | 231.00    |
| tblOffRoadEquipment       | HorsePower                 | 8.00          | 97.00     |
| tblOffRoadEquipment       | HorsePower                 | 80.00         | 89.00     |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.29      |
| tblOffRoadEquipment       | LoadFactor                 | 0.43          | 0.37      |
| tblOffRoadEquipment       | LoadFactor                 | 0.38          | 0.20      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 0.00      |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00          | 1.00      |
| tblOffRoadEquipment       | UsageHours                 | 8.00          | 4.00      |
| tblProjectCharacteristics | OperationalYear            | 2018          | 2023      |
| tblTripsAndVMT            | HaulingTripNumber          | 0.00          | 2.00      |
| tblTripsAndVMT            | VendorTripNumber           | 2.00          | 4.00      |
| tblTripsAndVMT            | WorkerTripNumber           | 5.00          | 10.00     |

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e           |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|----------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |                |
| 2021           | 4.8300e-003        | 0.0494        | 0.0520        | 1.1000e-004        | 1.0600e-003        | 2.1900e-003        | 3.2500e-003        | 2.9000e-004        | 2.0100e-003        | 2.3000e-003        | 0.0000        | 9.9728        | 9.9728        | 2.7000e-003        | 0.0000        | 10.0404        |
| <b>Maximum</b> | <b>4.8300e-003</b> | <b>0.0494</b> | <b>0.0520</b> | <b>1.1000e-004</b> | <b>1.0600e-003</b> | <b>2.1900e-003</b> | <b>3.2500e-003</b> | <b>2.9000e-004</b> | <b>2.0100e-003</b> | <b>2.3000e-003</b> | <b>0.0000</b> | <b>9.9728</b> | <b>9.9728</b> | <b>2.7000e-003</b> | <b>0.0000</b> | <b>10.0404</b> |

**Mitigated Construction**

|                | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e           |
|----------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|----------------|
| Year           | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |                |
| 2021           | 4.8300e-003        | 0.0494        | 0.0520        | 1.1000e-004        | 1.0600e-003        | 2.1900e-003        | 3.2500e-003        | 2.9000e-004        | 2.0100e-003        | 2.3000e-003        | 0.0000        | 9.9728        | 9.9728        | 2.7000e-003        | 0.0000        | 10.0404        |
| <b>Maximum</b> | <b>4.8300e-003</b> | <b>0.0494</b> | <b>0.0520</b> | <b>1.1000e-004</b> | <b>1.0600e-003</b> | <b>2.1900e-003</b> | <b>3.2500e-003</b> | <b>2.9000e-004</b> | <b>2.0100e-003</b> | <b>2.3000e-003</b> | <b>0.0000</b> | <b>9.9728</b> | <b>9.9728</b> | <b>2.7000e-003</b> | <b>0.0000</b> | <b>10.0404</b> |

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

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| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 5-1-2021   | 7-31-2021 | 0.0542                                       | 0.0542                                     |
|         |            | Highest   | 0.0542                                       | 0.0542                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2           | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr              |               |               |                    |               |               |
| Area         | 1.0000e-004        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Energy       | 0.0000             | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Mobile       | 4.3000e-004        | 2.8300e-003        | 4.5500e-003        | 2.0000e-005        | 1.3900e-003        | 1.0000e-005        | 1.4000e-003        | 3.7000e-004        | 1.0000e-005        | 3.9000e-004        | 0.0000             | 1.6945        | 1.6945        | 6.0000e-005        | 0.0000        | 1.6960        |
| Waste        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 4.0600e-003        | 0.0000        | 4.0600e-003   | 2.4000e-004        | 0.0000        | 0.0101        |
| Water        |                    |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000             | 0.3754        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> | <b>5.3000e-004</b> | <b>2.8300e-003</b> | <b>4.5500e-003</b> | <b>2.0000e-005</b> | <b>1.3900e-003</b> | <b>1.0000e-005</b> | <b>1.4000e-003</b> | <b>3.7000e-004</b> | <b>1.0000e-005</b> | <b>3.9000e-004</b> | <b>4.0600e-003</b> | <b>2.0699</b> | <b>2.0739</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>2.0826</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Building Construction | Building Construction | 5/1/2021   | 5/28/2021 | 5             | 20       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Construction | Cranes                    | 0      | 4.00        | 231         | 0.29        |
| Building Construction | Excavators                | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 0      | 6.00        | 89          | 0.20        |
| Building Construction | Paving Equipment          | 2      | 4.00        | 132         | 0.36        |
| Building Construction | Plate Compactors          | 2      | 2.00        | 97          | 0.37        |
| Building Construction | Rollers                   | 1      | 4.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Construction | 7                       | 10.00              | 4.00               | 2.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 4.3700e-003        | 0.0446        | 0.0487        | 9.0000e-005        |               | 2.1700e-003        | 2.1700e-003        |                | 2.0000e-003        | 2.0000e-003        | 0.0000        | 8.1466        | 8.1466        | 2.6300e-003        | 0.0000        | 8.2124        |
| <b>Total</b> | <b>4.3700e-003</b> | <b>0.0446</b> | <b>0.0487</b> | <b>9.0000e-005</b> |               | <b>2.1700e-003</b> | <b>2.1700e-003</b> |                | <b>2.0000e-003</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>8.1466</b> | <b>8.1466</b> | <b>2.6300e-003</b> | <b>0.0000</b> | <b>8.2124</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.5000e-004</b> | <b>4.8400e-003</b> | <b>3.2400e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>2.0000e-005</b> | <b>1.0800e-003</b> | <b>2.9000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.8263</b> | <b>1.8263</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.8280</b> |



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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 4.3700e-003        | 0.0446        | 0.0487        | 9.0000e-005        |               | 2.1700e-003        | 2.1700e-003        |                | 2.0000e-003        | 2.0000e-003        | 0.0000        | 8.1466        | 8.1466        | 2.6300e-003        | 0.0000        | 8.2124        |
| <b>Total</b> | <b>4.3700e-003</b> | <b>0.0446</b> | <b>0.0487</b> | <b>9.0000e-005</b> |               | <b>2.1700e-003</b> | <b>2.1700e-003</b> |                | <b>2.0000e-003</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>8.1466</b> | <b>8.1466</b> | <b>2.6300e-003</b> | <b>0.0000</b> | <b>8.2124</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 1.2000e-004        | 4.3700e-003        | 8.3000e-004        | 1.0000e-005        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 8.0000e-005        | 1.0000e-005        | 9.0000e-005        | 0.0000        | 1.0954        | 1.0954        | 5.0000e-005        | 0.0000        | 1.0967        |
| Worker       | 3.2000e-004        | 2.2000e-004        | 2.3700e-003        | 1.0000e-005        | 7.9000e-004        | 1.0000e-005        | 7.9000e-004        | 2.1000e-004        | 0.0000             | 2.1000e-004        | 0.0000        | 0.6539        | 0.6539        | 1.0000e-005        | 0.0000        | 0.6543        |
| <b>Total</b> | <b>4.5000e-004</b> | <b>4.8400e-003</b> | <b>3.2400e-003</b> | <b>2.0000e-005</b> | <b>1.0700e-003</b> | <b>2.0000e-005</b> | <b>1.0800e-003</b> | <b>2.9000e-004</b> | <b>1.0000e-005</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>1.8263</b> | <b>1.8263</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>1.8280</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

|             | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |
| Unmitigated | 4.3000e-004 | 2.8300e-003 | 4.5500e-003 | 2.0000e-005 | 1.3900e-003   | 1.0000e-005  | 1.4000e-003 | 3.7000e-004    | 1.0000e-005   | 3.9000e-004 | 0.0000   | 1.6945    | 1.6945    | 6.0000e-005 | 0.0000 | 1.6960 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |
| Total     | 0.47                    | 5.69     | 4.19   | 3,731       | 3,731      |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

## Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

|             | ROG         | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-------------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category    | tons/yr     |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Mitigated   | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 1.0000e-004 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000             |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 1.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|-----------|-------------|--------|--------|
| Category    | MT/yr     |             |        |        |
| Mitigated   | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |
| Unmitigated | 0.3754    | 1.0000e-005 | 0.0000 | 0.3766 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |



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**7.2 Water by Land Use**

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|---------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |               |               |
| City Park    | 0 / 0.29787        | 0.3754        | 1.0000e-005        | 0.0000        | 0.3766        |
| <b>Total</b> |                    | <b>0.3754</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.3766</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2   | CH4         | N2O    | CO2e   |
|-------------|-------------|-------------|--------|--------|
|             | MT/yr       |             |        |        |
| Mitigated   | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| Unmitigated | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**Mitigated**

|              | Waste Disposed | Total CO2          | CH4                | N2O           | CO2e          |
|--------------|----------------|--------------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr              |                    |               |               |
| City Park    | 0.02           | 4.0600e-003        | 2.4000e-004        | 0.0000        | 0.0101        |
| <b>Total</b> |                | <b>4.0600e-003</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.0101</b> |

**9.0 Operational Offroad**

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

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B\_Clearing and Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 4.00 | Acre   | 4.00        | 174,240.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                    |                                 |       |                                  |       |
|---------------------------------|--------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban              | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 74    |
| <b>Climate Zone</b>             | 2                  |                                 |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>          | Roseville Electric |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 793.8              | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment B - Option 5A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment B - Option 5A, provided by Psomas, September 2017.gr

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

| Table Name                | Column Name          | Default Value | New Value                    |
|---------------------------|----------------------|---------------|------------------------------|
| tblConstructionPhase      | NumDays              | 8.00          | 15.00                        |
| tblConstructionPhase      | PhaseEndDate         | 3/31/2021     | 4/21/2021                    |
| tblGrading                | AcresOfGrading       | 7.50          | 4.00                         |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Tractors/Loaders/Backhoes    |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Graders                      |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Off-Highway Trucks           |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Excavators                   |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Rollers                      |
| tblOffRoadEquipment       | OffRoadEquipmentType |               | Other Construction Equipment |
| tblProjectCharacteristics | OperationalYear      | 2018          | 2023                         |
| tblTripsAndVMT            | HaulingTripNumber    | 0.00          | 2.00                         |
| tblTripsAndVMT            | VendorTripNumber     | 0.00          | 4.00                         |
| tblTripsAndVMT            | WorkerTripNumber     | 15.00         | 10.00                        |

**2.0 Emissions Summary**

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0175        | 0.1892        | 0.1214        | 2.4000e-004        | 0.0481        | 8.7100e-003        | 0.0568        | 0.0253         | 8.0100e-003        | 0.0333        | 0.0000        | 20.9292        | 20.9292        | 6.3700e-003        | 0.0000        | 21.0885        |
| <b>Maximum</b> | <b>0.0175</b> | <b>0.1892</b> | <b>0.1214</b> | <b>2.4000e-004</b> | <b>0.0481</b> | <b>8.7100e-003</b> | <b>0.0568</b> | <b>0.0253</b>  | <b>8.0100e-003</b> | <b>0.0333</b> | <b>0.0000</b> | <b>20.9292</b> | <b>20.9292</b> | <b>6.3700e-003</b> | <b>0.0000</b> | <b>21.0885</b> |

**Mitigated Construction**

|                | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Year           | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| 2021           | 0.0175        | 0.1892        | 0.1214        | 2.4000e-004        | 0.0481        | 8.7100e-003        | 0.0568        | 0.0253         | 8.0100e-003        | 0.0333        | 0.0000        | 20.9292        | 20.9292        | 6.3700e-003        | 0.0000        | 21.0885        |
| <b>Maximum</b> | <b>0.0175</b> | <b>0.1892</b> | <b>0.1214</b> | <b>2.4000e-004</b> | <b>0.0481</b> | <b>8.7100e-003</b> | <b>0.0568</b> | <b>0.0253</b>  | <b>8.0100e-003</b> | <b>0.0333</b> | <b>0.0000</b> | <b>20.9292</b> | <b>20.9292</b> | <b>6.3700e-003</b> | <b>0.0000</b> | <b>21.0885</b> |

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

Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 4-1-2021   | 6-30-2021 | 0.2067                                       | 0.2067                                     |
|         |            | Highest   | 0.2067                                       | 0.2067                                     |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |                    |                |
| Area         | 1.6400e-003        | 0.0000        | 4.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 7.0000e-005    | 7.0000e-005    | 0.0000             | 0.0000             | 8.0000e-005    |
| Energy       | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Mobile       | 6.8200e-003        | 0.0453        | 0.0727        | 2.9000e-004        | 0.0222        | 2.1000e-004        | 0.0224        | 5.9700e-003        | 1.9000e-004        | 6.1700e-003        | 0.0000        | 27.1115        | 27.1115        | 9.8000e-004        | 0.0000             | 27.1360        |
| Waste        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0690        | 0.0000         | 0.0690         | 4.0800e-003        | 0.0000             | 0.1710         |
| Water        |                    |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000             | 0.0000        | 6.0061         | 6.0061         | 2.2000e-004        | 5.0000e-005        | 6.0251         |
| <b>Total</b> | <b>8.4600e-003</b> | <b>0.0453</b> | <b>0.0728</b> | <b>2.9000e-004</b> | <b>0.0222</b> | <b>2.1000e-004</b> | <b>0.0224</b> | <b>5.9700e-003</b> | <b>1.9000e-004</b> | <b>6.1700e-003</b> | <b>0.0690</b> | <b>33.1177</b> | <b>33.1867</b> | <b>5.2800e-003</b> | <b>5.0000e-005</b> | <b>33.3321</b> |

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

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Grading    | Grading    | 4/1/2021   | 4/21/2021 | 5             | 15       |                   |

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type       | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Tractors/Loaders/Backhoes    | 1      | 2.66        | 97          | 0.37        |
| Architectural Coating | Graders                      | 1      | 4.00        | 187         | 0.41        |
| Architectural Coating | Off-Highway Trucks           | 1      | 4.00        | 402         | 0.38        |
| Architectural Coating | Excavators                   | 1      | 4.80        | 158         | 0.38        |
| Architectural Coating | Rollers                      | 2      | 4.00        | 80          | 0.38        |
| Architectural Coating | Other Construction Equipment | 4      | 4.00        | 172         | 0.42        |
| Grading               | Excavators                   | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers          | 1      | 8.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes    | 3      | 8.00        | 97          | 0.37        |
| Grading               | Graders                      | 1      | 8.00        | 187         | 0.41        |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading    | 6                       | 10.00              | 4.00               | 2.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0473        | 0.0000             | 0.0473        | 0.0251         | 0.0000             | 0.0251        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0172        | 0.1855        | 0.1189        | 2.2000e-004        |               | 8.7000e-003        | 8.7000e-003   |                | 8.0000e-003        | 8.0000e-003   | 0.0000        | 19.5403        | 19.5403        | 6.3200e-003        | 0.0000        | 19.6983        |
| <b>Total</b>  | <b>0.0172</b> | <b>0.1855</b> | <b>0.1189</b> | <b>2.2000e-004</b> | <b>0.0473</b> | <b>8.7000e-003</b> | <b>0.0560</b> | <b>0.0251</b>  | <b>8.0000e-003</b> | <b>0.0331</b> | <b>0.0000</b> | <b>19.5403</b> | <b>19.5403</b> | <b>6.3200e-003</b> | <b>0.0000</b> | <b>19.6983</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>3.6900e-003</b> | <b>2.4500e-003</b> | <b>2.0000e-005</b> | <b>8.1000e-004</b> | <b>1.0000e-005</b> | <b>8.1000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.3000e-004</b> | <b>0.0000</b> | <b>1.3889</b> | <b>1.3889</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3902</b> |

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**3.2 Grading - 2021**

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0473        | 0.0000             | 0.0473        | 0.0251         | 0.0000             | 0.0251        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0172        | 0.1855        | 0.1189        | 2.2000e-004        |               | 8.7000e-003        | 8.7000e-003   |                | 8.0000e-003        | 8.0000e-003   | 0.0000        | 19.5403        | 19.5403        | 6.3200e-003        | 0.0000        | 19.6982        |
| <b>Total</b>  | <b>0.0172</b> | <b>0.1855</b> | <b>0.1189</b> | <b>2.2000e-004</b> | <b>0.0473</b> | <b>8.7000e-003</b> | <b>0.0560</b> | <b>0.0251</b>  | <b>8.0000e-003</b> | <b>0.0331</b> | <b>0.0000</b> | <b>19.5403</b> | <b>19.5403</b> | <b>6.3200e-003</b> | <b>0.0000</b> | <b>19.6982</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.0000e-005        | 2.5000e-004        | 4.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 2.0000e-005        | 0.0000             | 0.0000             | 1.0000e-005        | 0.0000        | 0.0769        | 0.0769        | 0.0000             | 0.0000        | 0.0770        |
| Vendor       | 9.0000e-005        | 3.2800e-003        | 6.3000e-004        | 1.0000e-005        | 2.0000e-004        | 1.0000e-005        | 2.0000e-004        | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 0.0000        | 0.8215        | 0.8215        | 4.0000e-005        | 0.0000        | 0.8225        |
| Worker       | 2.4000e-004        | 1.6000e-004        | 1.7800e-003        | 1.0000e-005        | 5.9000e-004        | 0.0000             | 5.9000e-004        | 1.6000e-004        | 0.0000             | 1.6000e-004        | 0.0000        | 0.4905        | 0.4905        | 1.0000e-005        | 0.0000        | 0.4907        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>3.6900e-003</b> | <b>2.4500e-003</b> | <b>2.0000e-005</b> | <b>8.1000e-004</b> | <b>1.0000e-005</b> | <b>8.1000e-004</b> | <b>2.2000e-004</b> | <b>1.0000e-005</b> | <b>2.3000e-004</b> | <b>0.0000</b> | <b>1.3889</b> | <b>1.3889</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.3902</b> |

**4.0 Operational Detail - Mobile**

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District, Annual **4.1 Mitigation Measures Mobile**

|             | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|-------------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr     |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |
| Unmitigated | 6.8200e-003 | 0.0453 | 0.0727 | 2.9000e-004 | 0.0222        | 2.1000e-004  | 0.0224     | 5.9700e-003    | 1.9000e-004   | 6.1700e-003 | 0.0000   | 27.1115   | 27.1115   | 9.8000e-004 | 0.0000 | 27.1360 |

**4.2 Trip Summary Information**

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |
| Total     | 7.56                    | 91.00    | 66.96  | 59,703      | 59,703     |

**4.3 Trip Type Information**

| Land Use  | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|           | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| City Park | 9.50       | 7.30       | 7.30        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |

**4.4 Fleet Mix**

| Land Use  | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.504187 | 0.038691 | 0.220388 | 0.121642 | 0.020356 | 0.005773 | 0.031759 | 0.047089 | 0.001411 | 0.001172 | 0.005719 | 0.000756 | 0.001058 |

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category                | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Electricity Mitigated   |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| City Park    | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |
| Unmitigated | 1.6400e-003 | 0.0000 | 4.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0000 | 8.0000e-005 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG                | NOx           | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | tons/yr            |               |                    |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Architectural Coating | 0.0000             |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 1.6400e-003        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000             | 0.0000        | 4.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 7.0000e-005        | 7.0000e-005        | 0.0000        | 0.0000        | 8.0000e-005        |
| <b>Total</b>          | <b>1.6400e-003</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>8.0000e-005</b> |