

Appendix A

Air Quality and Greenhouse Gas Modeling Results

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Magnolias Affordable Housing

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 67.00 | Space | 0.66 | 28,750.00 | 0 |
| Apartments Mid Rise | 66.00 | Dwelling Unit | 0.87 | 89,800.00 | 189 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2025 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 203.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square footage based on applicant provided information.

Construction Phase - Construction phasing based on applicant provided information.

Demolition -

Grading - Total site acreage based on applicant provided information.

Vehicle Trips - Trip generation based on rates in ITE Trip Generation Manual 10th Ed, consistent with the traffic report prepared for the proposed project by Hexagon.

Mobile Land Use Mitigation - Increase in transit accessibility based on applicant-provided information.

Energy Mitigation - Energy mitigation based on applicant-provided information.

Water Mitigation - Water conservation strategy based on applicant-provided information.

Trips and VMT -

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| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 5.00 |
| tblConstructionPhase | NumDays | 2.00 | 5.00 |
| tblConstructionPhase | NumDays | 4.00 | 5.00 |
| tblConstructionPhase | NumDays | 200.00 | 420.00 |
| tblConstructionPhase | NumDays | 10.00 | 420.00 |
| tblGrading | MaterialExported | 0.00 | 1,774.00 |
| tblGrading | MaterialImported | 0.00 | 1,140.00 |
| tblLandUse | LandUseSquareFeet | 26,800.00 | 28,750.00 |
| tblLandUse | LandUseSquareFeet | 66,000.00 | 89,800.00 |
| tblLandUse | LotAcreage | 0.60 | 0.66 |
| tblLandUse | LotAcreage | 1.74 | 0.87 |
| tblVehicleTrips | ST_TR | 4.91 | 4.02 |
| tblVehicleTrips | SU_TR | 4.09 | 4.02 |
| tblVehicleTrips | WD_TR | 5.44 | 4.02 |

2.0 Emissions Summary

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | | | | | |
| 2023 | 0.4761 | 1.4730 | 1.6768 | 3.4400e-003 | 0.1015 | 0.0629 | 0.1644 | 0.0342 | 0.0607 | 0.0949 | 0.0000 | 295.7753 | 295.7753 | 0.0391 | 6.3700e-003 | 298.6513 |
| 2024 | 0.5638 | 1.4736 | 1.8243 | 3.6600e-003 | 0.0740 | 0.0590 | 0.1330 | 0.0199 | 0.0572 | 0.0771 | 0.0000 | 312.5744 | 312.5744 | 0.0379 | 5.2200e-003 | 315.0771 |
| Maximum | 0.5638 | 1.4736 | 1.8243 | 3.6600e-003 | 0.1015 | 0.0629 | 0.1644 | 0.0342 | 0.0607 | 0.0949 | 0.0000 | 312.5744 | 312.5744 | 0.0391 | 6.3700e-003 | 315.0771 |

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 | | | | | |
| 2023 | 0.4761 | 1.4730 | 1.6768 | 3.4400e-003 | 0.1015 | 0.0629 | 0.1644 | 0.0342 | 0.0607 | 0.0949 | 0.0000 | 295.7750 | 295.7750 | 0.0391 | 6.3700e-003 | 298.6511 |
| 2024 | 0.5638 | 1.4736 | 1.8243 | 3.6600e-003 | 0.0740 | 0.0590 | 0.1330 | 0.0199 | 0.0572 | 0.0771 | 0.0000 | 312.5741 | 312.5741 | 0.0379 | 5.2200e-003 | 315.0768 |
| Maximum | 0.5638 | 1.4736 | 1.8243 | 3.6600e-003 | 0.1015 | 0.0629 | 0.1644 | 0.0342 | 0.0607 | 0.0949 | 0.0000 | 312.5741 | 312.5741 | 0.0391 | 6.3700e-003 | 315.0768 |

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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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| 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 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1 | 3-1-2023 | 5-31-2023 | 0.5311 | 0.5311 |
| 2 | 6-1-2023 | 8-31-2023 | 0.6112 | 0.6112 |
| 3 | 9-1-2023 | 11-30-2023 | 0.6059 | 0.6059 |
| 4 | 12-1-2023 | 2-29-2024 | 0.5878 | 0.5878 |
| 5 | 3-1-2024 | 5-31-2024 | 0.5833 | 0.5833 |
| 6 | 6-1-2024 | 8-31-2024 | 0.5826 | 0.5826 |
| 7 | 9-1-2024 | 9-30-2024 | 0.1900 | 0.1900 |
| | | Highest | 0.6112 | 0.6112 |

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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 | 0.5834 | 9.1500e-003 | 0.6999 | 4.4000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |
| Energy | 2.9800e-003 | 0.0255 | 0.0109 | 1.6000e-004 | | 2.0600e-003 | 2.0600e-003 | | 2.0600e-003 | 2.0600e-003 | 0.0000 | 54.0620 | 54.0620 | 4.5400e-003 | 1.0200e-003 | 54.4801 |
| Mobile | 0.1059 | 0.1175 | 0.9837 | 2.0400e-003 | 0.2259 | 1.5100e-003 | 0.2274 | 0.0603 | 1.4100e-003 | 0.0618 | 0.0000 | 193.0446 | 193.0446 | 0.0126 | 9.2300e-003 | 196.1099 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.1628 | 0.0000 | 6.1628 | 0.3642 | 0.0000 | 15.2681 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.3642 | 3.0308 | 4.3950 | 0.1406 | 3.3700e-003 | 8.9140 |
| Total | 0.6923 | 0.1522 | 1.6944 | 2.6400e-003 | 0.2259 | 0.0363 | 0.2621 | 0.0603 | 0.0362 | 0.0965 | 10.5360 | 252.1750 | 262.7110 | 0.5275 | 0.0138 | 280.0175 |

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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 | 0.5834 | 9.1500e-003 | 0.6999 | 4.4000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |
| Energy | 2.7900e-003 | 0.0239 | 0.0102 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 52.1185 | 52.1185 | 4.4900e-003 | 9.9000e-004 | 52.5248 |
| Mobile | 0.1023 | 0.1109 | 0.9292 | 1.8900e-003 | 0.2088 | 1.4100e-003 | 0.2102 | 0.0558 | 1.3200e-003 | 0.0571 | 0.0000 | 178.9482 | 178.9482 | 0.0120 | 8.7200e-003 | 181.8473 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.1628 | 0.0000 | 6.1628 | 0.3642 | 0.0000 | 15.2681 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8868 | 1.9700 | 2.8568 | 0.0914 | 2.1900e-003 | 5.7941 |
| Total | 0.6885 | 0.1439 | 1.6393 | 2.4800e-003 | 0.2088 | 0.0360 | 0.2449 | 0.0558 | 0.0360 | 0.0917 | 10.0585 | 235.0743 | 245.1328 | 0.4777 | 0.0121 | 260.6796 |

| | ROG | NOx | CO | SO2 | 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 | 0.55 | 5.41 | 3.25 | 6.06 | 7.54 | 0.63 | 6.59 | 7.54 | 0.61 | 4.94 | 4.53 | 6.78 | 6.69 | 9.45 | 12.45 | 6.91 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|------------------|------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 3/1/2023 | 3/7/2023 | 5 | 5 | |
| 2 | Site Preparation | Site Preparation | 3/8/2023 | 3/14/2023 | 5 | 5 | |
| 3 | Grading | Grading | 3/15/2023 | 3/21/2023 | 5 | 5 | |

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| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Paving | Paving | 3/22/2023 | 4/4/2023 | 5 | 10 |
| 5 | Building Construction | Building Construction | 4/5/2023 | 11/12/2024 | 5 | 420 |
| 6 | Architectural Coating | Architectural Coating | 4/19/2023 | 11/26/2024 | 5 | 420 |

Acres of Grading (Site Preparation Phase): 4.69

Acres of Grading (Grading Phase): 5

Acres of Paving: 0.66

Residential Indoor: 181,845; Residential Outdoor: 60,615; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,725 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |

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| | | | | | |
|-----------------------|---------------------------|---|------|----|------|
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 14.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 222.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 143.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 60.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 12.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

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 | | | | | 1.5600e-003 | 0.0000 | 1.5600e-003 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.6800e-003 | 0.0358 | 0.0336 | 6.0000e-005 | | 1.6900e-003 | 1.6900e-003 | | 1.5800e-003 | 1.5800e-003 | 0.0000 | 5.2716 | 5.2716 | 1.3400e-003 | 0.0000 | 5.3051 |
| Total | 3.6800e-003 | 0.0358 | 0.0336 | 6.0000e-005 | 1.5600e-003 | 1.6900e-003 | 3.2500e-003 | 2.4000e-004 | 1.5800e-003 | 1.8200e-003 | 0.0000 | 5.2716 | 5.2716 | 1.3400e-003 | 0.0000 | 5.3051 |

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3.2 Demolition - 2023

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 | 9.5000e-004 | 2.2000e-004 | 0.0000 | 1.2000e-004 | 1.0000e-005 | 1.3000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4178 | 0.4178 | 1.0000e-005 | 7.0000e-005 | 0.4378 |
| 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 | 8.0000e-005 | 6.0000e-005 | 7.2000e-004 | 0.0000 | 2.6000e-004 | 0.0000 | 2.6000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2013 | 0.2013 | 1.0000e-005 | 1.0000e-005 | 0.2031 |
| Total | 9.0000e-005 | 1.0100e-003 | 9.4000e-004 | 0.0000 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 0.0000 | 0.6190 | 0.6190 | 2.0000e-005 | 8.0000e-005 | 0.6409 |

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 | | | | | 1.5600e-003 | 0.0000 | 1.5600e-003 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.6800e-003 | 0.0358 | 0.0336 | 6.0000e-005 | | 1.6900e-003 | 1.6900e-003 | | 1.5800e-003 | 1.5800e-003 | 0.0000 | 5.2716 | 5.2716 | 1.3400e-003 | 0.0000 | 5.3051 |
| Total | 3.6800e-003 | 0.0358 | 0.0336 | 6.0000e-005 | 1.5600e-003 | 1.6900e-003 | 3.2500e-003 | 2.4000e-004 | 1.5800e-003 | 1.8200e-003 | 0.0000 | 5.2716 | 5.2716 | 1.3400e-003 | 0.0000 | 5.3051 |

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3.2 Demolition - 2023

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 | 9.5000e-004 | 2.2000e-004 | 0.0000 | 1.2000e-004 | 1.0000e-005 | 1.3000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.4178 | 0.4178 | 1.0000e-005 | 7.0000e-005 | 0.4378 |
| 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 | 8.0000e-005 | 6.0000e-005 | 7.2000e-004 | 0.0000 | 2.6000e-004 | 0.0000 | 2.6000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2013 | 0.2013 | 1.0000e-005 | 1.0000e-005 | 0.2031 |
| Total | 9.0000e-005 | 1.0100e-003 | 9.4000e-004 | 0.0000 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 1.0000e-004 | 1.0000e-005 | 1.1000e-004 | 0.0000 | 0.6190 | 0.6190 | 2.0000e-005 | 8.0000e-005 | 0.6409 |

3.3 Site Preparation - 2023

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 | | | | | 0.0158 | 0.0000 | 0.0158 | 7.5200e-003 | 0.0000 | 7.5200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8300e-003 | 0.0311 | 0.0166 | 4.0000e-005 | | 1.2700e-003 | 1.2700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 3.7786 | 3.7786 | 1.2200e-003 | 0.0000 | 3.8091 |
| Total | 2.8300e-003 | 0.0311 | 0.0166 | 4.0000e-005 | 0.0158 | 1.2700e-003 | 0.0170 | 7.5200e-003 | 1.1700e-003 | 8.6900e-003 | 0.0000 | 3.7786 | 3.7786 | 1.2200e-003 | 0.0000 | 3.8091 |

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3.3 Site Preparation - 2023

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 | 2.3000e-004 | 0.0151 | 3.5400e-003 | 7.0000e-005 | 1.8800e-003 | 1.2000e-004 | 2.0000e-003 | 5.2000e-004 | 1.2000e-004 | 6.3000e-004 | 0.0000 | 6.6244 | 6.6244 | 2.2000e-004 | 1.0500e-003 | 6.9427 |
| 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 | 5.0000e-005 | 4.0000e-005 | 4.4000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1239 | 0.1239 | 0.0000 | 0.0000 | 0.1250 |
| Total | 2.8000e-004 | 0.0151 | 3.9800e-003 | 7.0000e-005 | 2.0400e-003 | 1.2000e-004 | 2.1600e-003 | 5.6000e-004 | 1.2000e-004 | 6.7000e-004 | 0.0000 | 6.7483 | 6.7483 | 2.2000e-004 | 1.0500e-003 | 7.0676 |

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 | | | | | 0.0158 | 0.0000 | 0.0158 | 7.5200e-003 | 0.0000 | 7.5200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8300e-003 | 0.0311 | 0.0166 | 4.0000e-005 | | 1.2700e-003 | 1.2700e-003 | | 1.1700e-003 | 1.1700e-003 | 0.0000 | 3.7786 | 3.7786 | 1.2200e-003 | 0.0000 | 3.8091 |
| Total | 2.8300e-003 | 0.0311 | 0.0166 | 4.0000e-005 | 0.0158 | 1.2700e-003 | 0.0170 | 7.5200e-003 | 1.1700e-003 | 8.6900e-003 | 0.0000 | 3.7786 | 3.7786 | 1.2200e-003 | 0.0000 | 3.8091 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

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 | 2.3000e-004 | 0.0151 | 3.5400e-003 | 7.0000e-005 | 1.8800e-003 | 1.2000e-004 | 2.0000e-003 | 5.2000e-004 | 1.2000e-004 | 6.3000e-004 | 0.0000 | 6.6244 | 6.6244 | 2.2000e-004 | 1.0500e-003 | 6.9427 |
| 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 | 5.0000e-005 | 4.0000e-005 | 4.4000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 0.0000 | 0.1239 | 0.1239 | 0.0000 | 0.0000 | 0.1250 |
| Total | 2.8000e-004 | 0.0151 | 3.9800e-003 | 7.0000e-005 | 2.0400e-003 | 1.2000e-004 | 2.1600e-003 | 5.6000e-004 | 1.2000e-004 | 6.7000e-004 | 0.0000 | 6.7483 | 6.7483 | 2.2000e-004 | 1.0500e-003 | 7.0676 |

3.4 Grading - 2023

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 | | | | | 0.0178 | 0.0000 | 0.0178 | 8.5700e-003 | 0.0000 | 8.5700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.3300e-003 | 0.0362 | 0.0218 | 5.0000e-005 | | 1.5100e-003 | 1.5100e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 4.5260 | 4.5260 | 1.4600e-003 | 0.0000 | 4.5626 |
| Total | 3.3300e-003 | 0.0362 | 0.0218 | 5.0000e-005 | 0.0178 | 1.5100e-003 | 0.0193 | 8.5700e-003 | 1.3900e-003 | 9.9600e-003 | 0.0000 | 4.5260 | 4.5260 | 1.4600e-003 | 0.0000 | 4.5626 |

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3.4 Grading - 2023

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 | 1.5000e-004 | 9.7000e-003 | 2.2800e-003 | 4.0000e-005 | 1.2100e-003 | 8.0000e-005 | 1.2900e-003 | 3.3000e-004 | 8.0000e-005 | 4.1000e-004 | 0.0000 | 4.2671 | 4.2671 | 1.4000e-004 | 6.8000e-004 | 4.4721 |
| 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 | 6.0000e-005 | 4.0000e-005 | 5.5000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1548 | 0.1548 | 0.0000 | 0.0000 | 0.1562 |
| Total | 2.1000e-004 | 9.7400e-003 | 2.8300e-003 | 4.0000e-005 | 1.4100e-003 | 8.0000e-005 | 1.4900e-003 | 3.8000e-004 | 8.0000e-005 | 4.6000e-004 | 0.0000 | 4.4219 | 4.4219 | 1.4000e-004 | 6.8000e-004 | 4.6283 |

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 | | | | | 0.0178 | 0.0000 | 0.0178 | 8.5700e-003 | 0.0000 | 8.5700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.3300e-003 | 0.0362 | 0.0218 | 5.0000e-005 | | 1.5100e-003 | 1.5100e-003 | | 1.3900e-003 | 1.3900e-003 | 0.0000 | 4.5260 | 4.5260 | 1.4600e-003 | 0.0000 | 4.5626 |
| Total | 3.3300e-003 | 0.0362 | 0.0218 | 5.0000e-005 | 0.0178 | 1.5100e-003 | 0.0193 | 8.5700e-003 | 1.3900e-003 | 9.9600e-003 | 0.0000 | 4.5260 | 4.5260 | 1.4600e-003 | 0.0000 | 4.5626 |

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3.4 Grading - 2023

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 | 1.5000e-004 | 9.7000e-003 | 2.2800e-003 | 4.0000e-005 | 1.2100e-003 | 8.0000e-005 | 1.2900e-003 | 3.3000e-004 | 8.0000e-005 | 4.1000e-004 | 0.0000 | 4.2671 | 4.2671 | 1.4000e-004 | 6.8000e-004 | 4.4721 |
| 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 | 6.0000e-005 | 4.0000e-005 | 5.5000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1548 | 0.1548 | 0.0000 | 0.0000 | 0.1562 |
| Total | 2.1000e-004 | 9.7400e-003 | 2.8300e-003 | 4.0000e-005 | 1.4100e-003 | 8.0000e-005 | 1.4900e-003 | 3.8000e-004 | 8.0000e-005 | 4.6000e-004 | 0.0000 | 4.4219 | 4.4219 | 1.4000e-004 | 6.8000e-004 | 4.6283 |

3.5 Paving - 2023

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 | 3.2200e-003 | 0.0312 | 0.0440 | 7.0000e-005 | | 1.5400e-003 | 1.5400e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.8862 | 5.8862 | 1.8700e-003 | 0.0000 | 5.9329 |
| Paving | 8.6000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 4.0800e-003 | 0.0312 | 0.0440 | 7.0000e-005 | | 1.5400e-003 | 1.5400e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.8862 | 5.8862 | 1.8700e-003 | 0.0000 | 5.9329 |

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3.5 Paving - 2023

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 1.7000e-004 | 1.1000e-004 | 1.4400e-003 | 0.0000 | 5.1000e-004 | 0.0000 | 5.2000e-004 | 1.4000e-004 | 0.0000 | 1.4000e-004 | 0.0000 | 0.4025 | 0.4025 | 1.0000e-005 | 1.0000e-005 | 0.4061 |
| Total | 1.7000e-004 | 1.1000e-004 | 1.4400e-003 | 0.0000 | 5.1000e-004 | 0.0000 | 5.2000e-004 | 1.4000e-004 | 0.0000 | 1.4000e-004 | 0.0000 | 0.4025 | 0.4025 | 1.0000e-005 | 1.0000e-005 | 0.4061 |

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 | 3.2200e-003 | 0.0312 | 0.0440 | 7.0000e-005 | | 1.5400e-003 | 1.5400e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.8862 | 5.8862 | 1.8700e-003 | 0.0000 | 5.9329 |
| Paving | 8.6000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 4.0800e-003 | 0.0312 | 0.0440 | 7.0000e-005 | | 1.5400e-003 | 1.5400e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.8862 | 5.8862 | 1.8700e-003 | 0.0000 | 5.9329 |

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3.5 Paving - 2023

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 1.7000e-004 | 1.1000e-004 | 1.4400e-003 | 0.0000 | 5.1000e-004 | 0.0000 | 5.2000e-004 | 1.4000e-004 | 0.0000 | 1.4000e-004 | 0.0000 | 0.4025 | 0.4025 | 1.0000e-005 | 1.0000e-005 | 0.4061 |
| Total | 1.7000e-004 | 1.1000e-004 | 1.4400e-003 | 0.0000 | 5.1000e-004 | 0.0000 | 5.2000e-004 | 1.4000e-004 | 0.0000 | 1.4000e-004 | 0.0000 | 0.4025 | 0.4025 | 1.0000e-005 | 1.0000e-005 | 0.4061 |

3.6 Building Construction - 2023

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 | 0.1470 | 1.1301 | 1.2170 | 2.1300e-003 | | 0.0497 | 0.0497 | | 0.0479 | 0.0479 | 0.0000 | 175.2432 | 175.2432 | 0.0298 | 0.0000 | 175.9871 |
| Total | 0.1470 | 1.1301 | 1.2170 | 2.1300e-003 | | 0.0497 | 0.0497 | | 0.0479 | 0.0479 | 0.0000 | 175.2432 | 175.2432 | 0.0298 | 0.0000 | 175.9871 |

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3.6 Building Construction - 2023

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 | 1.2300e-003 | 0.0515 | 0.0161 | 2.3000e-004 | 7.6000e-003 | 3.0000e-004 | 7.9000e-003 | 2.2000e-003 | 2.9000e-004 | 2.4900e-003 | 0.0000 | 22.8584 | 22.8584 | 4.7000e-004 | 3.3800e-003 | 23.8777 |
| Worker | 0.0148 | 0.0101 | 0.1284 | 3.9000e-004 | 0.0458 | 2.4000e-004 | 0.0460 | 0.0122 | 2.2000e-004 | 0.0124 | 0.0000 | 35.8574 | 35.8574 | 1.0300e-003 | 9.8000e-004 | 36.1764 |
| Total | 0.0161 | 0.0616 | 0.1445 | 6.2000e-004 | 0.0534 | 5.4000e-004 | 0.0539 | 0.0144 | 5.1000e-004 | 0.0149 | 0.0000 | 58.7158 | 58.7158 | 1.5000e-003 | 4.3600e-003 | 60.0541 |

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 | 0.1470 | 1.1301 | 1.2170 | 2.1300e-003 | | 0.0497 | 0.0497 | | 0.0479 | 0.0479 | 0.0000 | 175.2430 | 175.2430 | 0.0298 | 0.0000 | 175.9869 |
| Total | 0.1470 | 1.1301 | 1.2170 | 2.1300e-003 | | 0.0497 | 0.0497 | | 0.0479 | 0.0479 | 0.0000 | 175.2430 | 175.2430 | 0.0298 | 0.0000 | 175.9869 |

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3.6 Building Construction - 2023

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 | 1.2300e-003 | 0.0515 | 0.0161 | 2.3000e-004 | 7.6000e-003 | 3.0000e-004 | 7.9000e-003 | 2.2000e-003 | 2.9000e-004 | 2.4900e-003 | 0.0000 | 22.8584 | 22.8584 | 4.7000e-004 | 3.3800e-003 | 23.8777 |
| Worker | 0.0148 | 0.0101 | 0.1284 | 3.9000e-004 | 0.0458 | 2.4000e-004 | 0.0460 | 0.0122 | 2.2000e-004 | 0.0124 | 0.0000 | 35.8574 | 35.8574 | 1.0300e-003 | 9.8000e-004 | 36.1764 |
| Total | 0.0161 | 0.0616 | 0.1445 | 6.2000e-004 | 0.0534 | 5.4000e-004 | 0.0539 | 0.0144 | 5.1000e-004 | 0.0149 | 0.0000 | 58.7158 | 58.7158 | 1.5000e-003 | 4.3600e-003 | 60.0541 |

3.6 Building Construction - 2024

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 | 0.1612 | 1.2558 | 1.4207 | 2.5000e-003 | | 0.0511 | 0.0511 | | 0.0494 | 0.0494 | 0.0000 | 206.1288 | 206.1288 | 0.0343 | 0.0000 | 206.9870 |
| Total | 0.1612 | 1.2558 | 1.4207 | 2.5000e-003 | | 0.0511 | 0.0511 | | 0.0494 | 0.0494 | 0.0000 | 206.1288 | 206.1288 | 0.0343 | 0.0000 | 206.9870 |

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3.6 Building Construction - 2024

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 | 1.4100e-003 | 0.0606 | 0.0186 | 2.7000e-004 | 8.9400e-003 | 3.6000e-004 | 9.2900e-003 | 2.5800e-003 | 3.4000e-004 | 2.9300e-003 | 0.0000 | 26.4663 | 26.4663 | 5.5000e-004 | 3.9100e-003 | 27.6465 |
| Worker | 0.0163 | 0.0107 | 0.1411 | 4.4000e-004 | 0.0538 | 2.6000e-004 | 0.0541 | 0.0143 | 2.4000e-004 | 0.0146 | 0.0000 | 41.1340 | 41.1340 | 1.1000e-003 | 1.0800e-003 | 41.4829 |
| Total | 0.0177 | 0.0712 | 0.1596 | 7.1000e-004 | 0.0628 | 6.2000e-004 | 0.0634 | 0.0169 | 5.8000e-004 | 0.0175 | 0.0000 | 67.6004 | 67.6004 | 1.6500e-003 | 4.9900e-003 | 69.1294 |

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 | 0.1612 | 1.2558 | 1.4207 | 2.5000e-003 | | 0.0511 | 0.0511 | | 0.0494 | 0.0494 | 0.0000 | 206.1285 | 206.1285 | 0.0343 | 0.0000 | 206.9867 |
| Total | 0.1612 | 1.2558 | 1.4207 | 2.5000e-003 | | 0.0511 | 0.0511 | | 0.0494 | 0.0494 | 0.0000 | 206.1285 | 206.1285 | 0.0343 | 0.0000 | 206.9867 |

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3.6 Building Construction - 2024

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 | 1.4100e-003 | 0.0606 | 0.0186 | 2.7000e-004 | 8.9400e-003 | 3.6000e-004 | 9.2900e-003 | 2.5800e-003 | 3.4000e-004 | 2.9300e-003 | 0.0000 | 26.4663 | 26.4663 | 5.5000e-004 | 3.9100e-003 | 27.6465 |
| Worker | 0.0163 | 0.0107 | 0.1411 | 4.4000e-004 | 0.0538 | 2.6000e-004 | 0.0541 | 0.0143 | 2.4000e-004 | 0.0146 | 0.0000 | 41.1340 | 41.1340 | 1.1000e-003 | 1.0800e-003 | 41.4829 |
| Total | 0.0177 | 0.0712 | 0.1596 | 7.1000e-004 | 0.0628 | 6.2000e-004 | 0.0634 | 0.0169 | 5.8000e-004 | 0.0175 | 0.0000 | 67.6004 | 67.6004 | 1.6500e-003 | 4.9900e-003 | 69.1294 |

3.7 Architectural Coating - 2023

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 | | | | | |
| Archit. Coating | 0.2780 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0175 | 0.1192 | 0.1657 | 2.7000e-004 | | 6.4800e-003 | 6.4800e-003 | | 6.4800e-003 | 6.4800e-003 | 0.0000 | 23.3623 | 23.3623 | 1.4000e-003 | 0.0000 | 23.3972 |
| Total | 0.2956 | 0.1192 | 0.1657 | 2.7000e-004 | | 6.4800e-003 | 6.4800e-003 | | 6.4800e-003 | 6.4800e-003 | 0.0000 | 23.3623 | 23.3623 | 1.4000e-003 | 0.0000 | 23.3972 |

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3.7 Architectural Coating - 2023

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 2.8100e-003 | 1.9200e-003 | 0.0244 | 7.0000e-005 | 8.6800e-003 | 4.0000e-005 | 8.7200e-003 | 2.3100e-003 | 4.0000e-005 | 2.3500e-003 | 0.0000 | 6.7999 | 6.7999 | 2.0000e-004 | 1.9000e-004 | 6.8604 |
| Total | 2.8100e-003 | 1.9200e-003 | 0.0244 | 7.0000e-005 | 8.6800e-003 | 4.0000e-005 | 8.7200e-003 | 2.3100e-003 | 4.0000e-005 | 2.3500e-003 | 0.0000 | 6.7999 | 6.7999 | 2.0000e-004 | 1.9000e-004 | 6.8604 |

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 | | | | | |
| Archit. Coating | 0.2780 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0175 | 0.1192 | 0.1657 | 2.7000e-004 | | 6.4800e-003 | 6.4800e-003 | | 6.4800e-003 | 6.4800e-003 | 0.0000 | 23.3622 | 23.3622 | 1.4000e-003 | 0.0000 | 23.3972 |
| Total | 0.2956 | 0.1192 | 0.1657 | 2.7000e-004 | | 6.4800e-003 | 6.4800e-003 | | 6.4800e-003 | 6.4800e-003 | 0.0000 | 23.3622 | 23.3622 | 1.4000e-003 | 0.0000 | 23.3972 |

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3.7 Architectural Coating - 2023

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 2.8100e-003 | 1.9200e-003 | 0.0244 | 7.0000e-005 | 8.6800e-003 | 4.0000e-005 | 8.7200e-003 | 2.3100e-003 | 4.0000e-005 | 2.3500e-003 | 0.0000 | 6.7999 | 6.7999 | 2.0000e-004 | 1.9000e-004 | 6.8604 |
| Total | 2.8100e-003 | 1.9200e-003 | 0.0244 | 7.0000e-005 | 8.6800e-003 | 4.0000e-005 | 8.7200e-003 | 2.3100e-003 | 4.0000e-005 | 2.3500e-003 | 0.0000 | 6.7999 | 6.7999 | 2.0000e-004 | 1.9000e-004 | 6.8604 |

3.7 Architectural Coating - 2024

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 | | | | | |
| Archit. Coating | 0.3601 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0214 | 0.1444 | 0.2145 | 3.5000e-004 | | 7.2200e-003 | 7.2200e-003 | | 7.2200e-003 | 7.2200e-003 | 0.0000 | 30.2561 | 30.2561 | 1.7000e-003 | 0.0000 | 30.2987 |
| Total | 0.3815 | 0.1444 | 0.2145 | 3.5000e-004 | | 7.2200e-003 | 7.2200e-003 | | 7.2200e-003 | 7.2200e-003 | 0.0000 | 30.2561 | 30.2561 | 1.7000e-003 | 0.0000 | 30.2987 |

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3.7 Architectural Coating - 2024

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 3.4100e-003 | 2.2200e-003 | 0.0295 | 9.0000e-005 | 0.0112 | 6.0000e-005 | 0.0113 | 2.9900e-003 | 5.0000e-005 | 3.0400e-003 | 0.0000 | 8.5892 | 8.5892 | 2.3000e-004 | 2.3000e-004 | 8.6621 |
| Total | 3.4100e-003 | 2.2200e-003 | 0.0295 | 9.0000e-005 | 0.0112 | 6.0000e-005 | 0.0113 | 2.9900e-003 | 5.0000e-005 | 3.0400e-003 | 0.0000 | 8.5892 | 8.5892 | 2.3000e-004 | 2.3000e-004 | 8.6621 |

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 | | | | | |
| Archit. Coating | 0.3601 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0214 | 0.1444 | 0.2145 | 3.5000e-004 | | 7.2200e-003 | 7.2200e-003 | | 7.2200e-003 | 7.2200e-003 | 0.0000 | 30.2560 | 30.2560 | 1.7000e-003 | 0.0000 | 30.2986 |
| Total | 0.3815 | 0.1444 | 0.2145 | 3.5000e-004 | | 7.2200e-003 | 7.2200e-003 | | 7.2200e-003 | 7.2200e-003 | 0.0000 | 30.2560 | 30.2560 | 1.7000e-003 | 0.0000 | 30.2986 |

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3.7 Architectural Coating - 2024

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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 3.4100e-003 | 2.2200e-003 | 0.0295 | 9.0000e-005 | 0.0112 | 6.0000e-005 | 0.0113 | 2.9900e-003 | 5.0000e-005 | 3.0400e-003 | 0.0000 | 8.5892 | 8.5892 | 2.3000e-004 | 2.3000e-004 | 8.6621 |
| Total | 3.4100e-003 | 2.2200e-003 | 0.0295 | 9.0000e-005 | 0.0112 | 6.0000e-005 | 0.0113 | 2.9900e-003 | 5.0000e-005 | 3.0400e-003 | 0.0000 | 8.5892 | 8.5892 | 2.3000e-004 | 2.3000e-004 | 8.6621 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

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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 | 0.1023 | 0.1109 | 0.9292 | 1.8900e-003 | 0.2088 | 1.4100e-003 | 0.2102 | 0.0558 | 1.3200e-003 | 0.0571 | 0.0000 | 178.9482 | 178.9482 | 0.0120 | 8.7200e-003 | 181.8473 |
| Unmitigated | 0.1059 | 0.1175 | 0.9837 | 2.0400e-003 | 0.2259 | 1.5100e-003 | 0.2274 | 0.0603 | 1.4100e-003 | 0.0618 | 0.0000 | 193.0446 | 193.0446 | 0.0126 | 9.2300e-003 | 196.1099 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |

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 |
| Apartments Mid Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |
| Parking Lot | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |

5.0 Energy Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | 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 | 24.4758 | 24.4758 | 3.9600e-003 | 4.8000e-004 | 24.7178 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 24.5416 | 24.5416 | 3.9700e-003 | 4.8000e-004 | 24.7843 |
| Natural Gas Mitigated | 2.7900e-003 | 0.0239 | 0.0102 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.6427 | 27.6427 | 5.3000e-004 | 5.1000e-004 | 27.8070 |
| Natural Gas Unmitigated | 2.9800e-003 | 0.0255 | 0.0109 | 1.6000e-004 | | 2.0600e-003 | 2.0600e-003 | | 2.0600e-003 | 2.0600e-003 | 0.0000 | 29.5204 | 29.5204 | 5.7000e-004 | 5.4000e-004 | 29.6958 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 553191 | 2.9800e-003 | 0.0255 | 0.0109 | 1.6000e-004 | | 2.0600e-003 | 2.0600e-003 | | 2.0600e-003 | 2.0600e-003 | 0.0000 | 29.5204 | 29.5204 | 5.7000e-004 | 5.4000e-004 | 29.6958 |
| Parking Lot | 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 |
| Total | | 2.9800e-003 | 0.0255 | 0.0109 | 1.6000e-004 | | 2.0600e-003 | 2.0600e-003 | | 2.0600e-003 | 2.0600e-003 | 0.0000 | 29.5204 | 29.5204 | 5.7000e-004 | 5.4000e-004 | 29.6958 |

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 | | | | | |
| Apartments Mid Rise | 518005 | 2.7900e-003 | 0.0239 | 0.0102 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.6427 | 27.6427 | 5.3000e-004 | 5.1000e-004 | 27.8070 |
| Parking Lot | 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 |
| Total | | 2.7900e-003 | 0.0239 | 0.0102 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.6427 | 27.6427 | 5.3000e-004 | 5.1000e-004 | 27.8070 |

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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 | | | |
| Apartments Mid Rise | 255184 | 23.6106 | 3.8200e-003 | 4.6000e-004 | 23.8441 |
| Parking Lot | 10062.5 | 0.9310 | 1.5000e-004 | 2.0000e-005 | 0.9402 |
| Total | | 24.5416 | 3.9700e-003 | 4.8000e-004 | 24.7843 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 254590 | 23.5556 | 3.8100e-003 | 4.6000e-004 | 23.7885 |
| Parking Lot | 9945.05 | 0.9202 | 1.5000e-004 | 2.0000e-005 | 0.9293 |
| Total | | 24.4758 | 3.9600e-003 | 4.8000e-004 | 24.7178 |

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5834 | 9.1500e-003 | 0.6999 | 4.4000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |
| Unmitigated | 0.5834 | 9.1500e-003 | 0.6999 | 4.4000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | 0.0638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3526 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.1523 | 3.5000e-003 | 0.2097 | 4.2000e-004 | | 0.0300 | 0.0300 | | 0.0300 | 0.0300 | 3.0089 | 1.2359 | 4.2448 | 4.8400e-003 | 2.0000e-004 | 4.4245 |
| Landscaping | 0.0148 | 5.6500e-003 | 0.4902 | 3.0000e-005 | | 2.7200e-003 | 2.7200e-003 | | 2.7200e-003 | 2.7200e-003 | 0.0000 | 0.8017 | 0.8017 | 7.7000e-004 | 0.0000 | 0.8209 |
| Total | 0.5834 | 9.1500e-003 | 0.6999 | 4.5000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | 0.0638 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3526 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.1523 | 3.5000e-003 | 0.2097 | 4.2000e-004 | | 0.0300 | 0.0300 | | 0.0300 | 0.0300 | 3.0089 | 1.2359 | 4.2448 | 4.8400e-003 | 2.0000e-004 | 4.4245 |
| Landscaping | 0.0148 | 5.6500e-003 | 0.4902 | 3.0000e-005 | | 2.7200e-003 | 2.7200e-003 | | 2.7200e-003 | 2.7200e-003 | 0.0000 | 0.8017 | 0.8017 | 7.7000e-004 | 0.0000 | 0.8209 |
| Total | 0.5834 | 9.1500e-003 | 0.6999 | 4.5000e-004 | | 0.0327 | 0.0327 | | 0.0327 | 0.0327 | 3.0089 | 2.0376 | 5.0465 | 5.6100e-003 | 2.0000e-004 | 5.2455 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|--------|
| Category | MT/yr | | | |
| Mitigated | 2.8568 | 0.0914 | 2.1900e-003 | 5.7941 |
| Unmitigated | 4.3950 | 0.1406 | 3.3700e-003 | 8.9140 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 4.30017 / 2.71097 | 4.3950 | 0.1406 | 3.3700e-003 | 8.9140 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4.3950 | 0.1406 | 3.3700e-003 | 8.9140 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|--------------------|---------------|---------------|--------------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 2.79511 / 1.76213 | 2.8568 | 0.0914 | 2.1900e-003 | 5.7941 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.8568 | 0.0914 | 2.1900e-003 | 5.7941 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 6.1628 | 0.3642 | 0.0000 | 15.2681 |
| Unmitigated | 6.1628 | 0.3642 | 0.0000 | 15.2681 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 30.36 | 6.1628 | 0.3642 | 0.0000 | 15.2681 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 6.1628 | 0.3642 | 0.0000 | 15.2681 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 30.36 | 6.1628 | 0.3642 | 0.0000 | 15.2681 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 6.1628 | 0.3642 | 0.0000 | 15.2681 |

9.0 Operational Offroad

Magnolias Affordable Housing - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

10.0 Stationary Equipment

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

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Magnolias Affordable Housing
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 67.00 | Space | 0.66 | 28,750.00 | 0 |
| Apartments Mid Rise | 66.00 | Dwelling Unit | 0.87 | 89,800.00 | 189 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2025 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 203.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square footage based on applicant provided information.

Construction Phase - Construction phasing based on applicant provided information.

Demolition -

Grading - Total site acreage based on applicant provided information.

Vehicle Trips - Trip generation based on rates in ITE Trip Generation Manual 10th Ed, consistent with the traffic report prepared for the proposed project by Hexagon.

Mobile Land Use Mitigation - Increase in transit accessibility based on applicant-provided information.

Energy Mitigation - Energy mitigation based on applicant-provided information.

Water Mitigation - Water conservation strategy based on applicant-provided information.

Trips and VMT -

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 5.00 |
| tblConstructionPhase | NumDays | 2.00 | 5.00 |
| tblConstructionPhase | NumDays | 4.00 | 5.00 |
| tblConstructionPhase | NumDays | 200.00 | 420.00 |
| tblConstructionPhase | NumDays | 10.00 | 420.00 |
| tblGrading | MaterialExported | 0.00 | 1,774.00 |
| tblGrading | MaterialImported | 0.00 | 1,140.00 |
| tblLandUse | LandUseSquareFeet | 26,800.00 | 28,750.00 |
| tblLandUse | LandUseSquareFeet | 66,000.00 | 89,800.00 |
| tblLandUse | LotAcreage | 0.60 | 0.66 |
| tblLandUse | LotAcreage | 1.74 | 0.87 |
| tblVehicleTrips | ST_TR | 4.91 | 4.02 |
| tblVehicleTrips | SU_TR | 4.09 | 4.02 |
| tblVehicleTrips | WD_TR | 5.44 | 4.02 |

2.0 Emissions Summary

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.9615 | 18.2395 | 16.3077 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1739 | 0.0000 | 4,644.073 1 | 4,644.073 1 | 0.7093 | 0.4640 | 4,798.269 8 |
| 2024 | 4.8341 | 12.8975 | 16.0924 | 0.0324 | 0.6727 | 0.5174 | 1.1902 | 0.1803 | 0.5013 | 0.6816 | 0.0000 | 3,052.000 8 | 3,052.000 8 | 0.3665 | 0.0496 | 3,075.937 4 |
| Maximum | 4.9615 | 18.2395 | 16.3077 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1739 | 0.0000 | 4,644.073 1 | 4,644.073 1 | 0.7093 | 0.4640 | 4,798.269 8 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.9615 | 18.2395 | 16.3077 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1739 | 0.0000 | 4,644.073 1 | 4,644.073 1 | 0.7093 | 0.4640 | 4,798.269 8 |
| 2024 | 4.8341 | 12.8975 | 16.0924 | 0.0324 | 0.6727 | 0.5174 | 1.1902 | 0.1803 | 0.5013 | 0.6816 | 0.0000 | 3,052.000 8 | 3,052.000 8 | 0.3665 | 0.0496 | 3,075.937 4 |
| Maximum | 4.9615 | 18.2395 | 16.3077 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1739 | 0.0000 | 4,644.073 1 | 4,644.073 1 | 0.7093 | 0.4640 | 4,798.269 8 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Energy | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |
| Mobile | 0.6488 | 0.5942 | 5.3718 | 0.0118 | 1.2898 | 8.3200e-003 | 1.2982 | 0.3435 | 7.7500e-003 | 0.3513 | | 1,232.1352 | 1,232.1352 | 0.0711 | 0.0531 | 1,249.7344 |
| Total | 30.2539 | 1.3967 | 46.7395 | 0.0821 | 1.2898 | 5.1409 | 6.4307 | 0.3435 | 5.1403 | 5.4839 | 552.4759 | 1,664.8474 | 2,217.3233 | 0.8400 | 0.0954 | 2,266.7556 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Energy | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| Mobile | 0.6295 | 0.5607 | 5.0525 | 0.0110 | 1.1925 | 7.7700e-003 | 1.2003 | 0.3176 | 7.2400e-003 | 0.3249 | | 1,141.9668 | 1,141.9668 | 0.0677 | 0.0501 | 1,158.5959 |
| Total | 30.2335 | 1.3543 | 46.4164 | 0.0812 | 1.1925 | 5.1396 | 6.3321 | 0.3176 | 5.1391 | 5.4567 | 552.4759 | 1,563.3379 | 2,115.8137 | 0.8364 | 0.0922 | 2,164.2086 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | 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 | 0.07 | 3.04 | 0.69 | 1.13 | 7.54 | 0.02 | 1.53 | 7.54 | 0.02 | 0.50 | 0.00 | 6.10 | 4.58 | 0.43 | 3.33 | 4.52 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 3/1/2023 | 3/7/2023 | 5 | 5 | |
| 2 | Site Preparation | Site Preparation | 3/8/2023 | 3/14/2023 | 5 | 5 | |
| 3 | Grading | Grading | 3/15/2023 | 3/21/2023 | 5 | 5 | |
| 4 | Paving | Paving | 3/22/2023 | 4/4/2023 | 5 | 10 | |
| 5 | Building Construction | Building Construction | 4/5/2023 | 11/12/2024 | 5 | 420 | |
| 6 | Architectural Coating | Architectural Coating | 4/19/2023 | 11/26/2024 | 5 | 420 | |

Acres of Grading (Site Preparation Phase): 4.69

Acres of Grading (Grading Phase): 5

Acres of Paving: 0.66

Residential Indoor: 181,845; Residential Outdoor: 60,615; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,725 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 14.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 222.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 143.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 60.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 12.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6233 | 0.0000 | 0.6233 | 0.0944 | 0.0000 | 0.0944 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.4725 | 14.3184 | 13.4577 | 0.0241 | | 0.6766 | 0.6766 | | 0.6328 | 0.6328 | | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |
| Total | 1.4725 | 14.3184 | 13.4577 | 0.0241 | 0.6233 | 0.6766 | 1.2999 | 0.0944 | 0.6328 | 0.7271 | | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.9900e-003 | 0.3659 | 0.0889 | 1.6900e-003 | 0.0490 | 3.0700e-003 | 0.0520 | 0.0134 | 2.9400e-003 | 0.0164 | | 184.1257 | 184.1257 | 6.0700e-003 | 0.0292 | 192.9720 |
| 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 |
| Worker | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |
| Total | 0.0412 | 0.3861 | 0.3996 | 2.6200e-003 | 0.1558 | 3.6000e-003 | 0.1594 | 0.0418 | 3.4300e-003 | 0.0452 | | 278.8756 | 278.8756 | 8.4600e-003 | 0.0314 | 288.4515 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6233 | 0.0000 | 0.6233 | 0.0944 | 0.0000 | 0.0944 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.4725 | 14.3184 | 13.4577 | 0.0241 | | 0.6766 | 0.6766 | | 0.6328 | 0.6328 | 0.0000 | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |
| Total | 1.4725 | 14.3184 | 13.4577 | 0.0241 | 0.6233 | 0.6766 | 1.2999 | 0.0944 | 0.6328 | 0.7271 | 0.0000 | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.9900e-003 | 0.3659 | 0.0889 | 1.6900e-003 | 0.0490 | 3.0700e-003 | 0.0520 | 0.0134 | 2.9400e-003 | 0.0164 | | 184.1257 | 184.1257 | 6.0700e-003 | 0.0292 | 192.9720 |
| 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 |
| Worker | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |
| Total | 0.0412 | 0.3861 | 0.3996 | 2.6200e-003 | 0.1558 | 3.6000e-003 | 0.1594 | 0.0418 | 3.4300e-003 | 0.0452 | | 278.8756 | 278.8756 | 8.4600e-003 | 0.0314 | 288.4515 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3042 | 0.0000 | 6.3042 | 3.0099 | 0.0000 | 3.0099 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1339 | 12.4250 | 6.6420 | 0.0172 | | 0.5074 | 0.5074 | | 0.4668 | 0.4668 | | 1,666.0573 | 1,666.0573 | 0.5388 | | 1,679.5282 |
| Total | 1.1339 | 12.4250 | 6.6420 | 0.0172 | 6.3042 | 0.5074 | 6.8116 | 3.0099 | 0.4668 | 3.4767 | | 1,666.0573 | 1,666.0573 | 0.5388 | | 1,679.5282 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0950 | 5.8021 | 1.4092 | 0.0268 | 0.7766 | 0.0487 | 0.8252 | 0.2129 | 0.0466 | 0.2594 | | 2,919.7082 | 2,919.7082 | 0.0963 | 0.4627 | 3,059.9850 |
| 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 |
| Worker | 0.0216 | 0.0124 | 0.1912 | 5.7000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 58.3076 | 58.3076 | 1.4700e-003 | 1.3800e-003 | 58.7566 |
| Total | 0.1167 | 5.8146 | 1.6004 | 0.0273 | 0.8423 | 0.0490 | 0.8913 | 0.2303 | 0.0469 | 0.2772 | | 2,978.0158 | 2,978.0158 | 0.0977 | 0.4640 | 3,118.7416 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3042 | 0.0000 | 6.3042 | 3.0099 | 0.0000 | 3.0099 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1339 | 12.4250 | 6.6420 | 0.0172 | | 0.5074 | 0.5074 | | 0.4668 | 0.4668 | 0.0000 | 1,666.057 3 | 1,666.057 3 | 0.5388 | | 1,679.528 2 |
| Total | 1.1339 | 12.4250 | 6.6420 | 0.0172 | 6.3042 | 0.5074 | 6.8116 | 3.0099 | 0.4668 | 3.4767 | 0.0000 | 1,666.057 3 | 1,666.057 3 | 0.5388 | | 1,679.528 2 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0950 | 5.8021 | 1.4092 | 0.0268 | 0.7766 | 0.0487 | 0.8252 | 0.2129 | 0.0466 | 0.2594 | | 2,919.708 2 | 2,919.708 2 | 0.0963 | 0.4627 | 3,059.985 0 |
| 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 |
| Worker | 0.0216 | 0.0124 | 0.1912 | 5.7000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 58.3076 | 58.3076 | 1.4700e-003 | 1.3800e-003 | 58.7566 |
| Total | 0.1167 | 5.8146 | 1.6004 | 0.0273 | 0.8423 | 0.0490 | 0.8913 | 0.2303 | 0.0469 | 0.2772 | | 2,978.015 8 | 2,978.015 8 | 0.0977 | 0.4640 | 3,118.741 6 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.1084 | 0.0000 | 7.1084 | 3.4286 | 0.0000 | 3.4286 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.1084 | 0.6044 | 7.7127 | 3.4286 | 0.5560 | 3.9846 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0612 | 3.7374 | 0.9077 | 0.0173 | 0.5002 | 0.0314 | 0.5316 | 0.1371 | 0.0300 | 0.1671 | | 1,880.7129 | 1,880.7129 | 0.0620 | 0.2980 | 1,971.0714 |
| 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 |
| Worker | 0.0271 | 0.0155 | 0.2391 | 7.1000e-004 | 0.0822 | 4.1000e-004 | 0.0826 | 0.0218 | 3.8000e-004 | 0.0222 | | 72.8845 | 72.8845 | 1.8400e-003 | 1.7300e-003 | 73.4457 |
| Total | 0.0883 | 3.7530 | 1.1468 | 0.0180 | 0.5824 | 0.0318 | 0.6141 | 0.1589 | 0.0304 | 0.1893 | | 1,953.5974 | 1,953.5974 | 0.0638 | 0.2997 | 2,044.5171 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.1084 | 0.0000 | 7.1084 | 3.4286 | 0.0000 | 3.4286 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.1084 | 0.6044 | 7.7127 | 3.4286 | 0.5560 | 3.9846 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0612 | 3.7374 | 0.9077 | 0.0173 | 0.5002 | 0.0314 | 0.5316 | 0.1371 | 0.0300 | 0.1671 | | 1,880.7129 | 1,880.7129 | 0.0620 | 0.2980 | 1,971.0714 |
| 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 |
| Worker | 0.0271 | 0.0155 | 0.2391 | 7.1000e-004 | 0.0822 | 4.1000e-004 | 0.0826 | 0.0218 | 3.8000e-004 | 0.0222 | | 72.8845 | 72.8845 | 1.8400e-003 | 1.7300e-003 | 73.4457 |
| Total | 0.0883 | 3.7530 | 1.1468 | 0.0180 | 0.5824 | 0.0318 | 0.6141 | 0.1589 | 0.0304 | 0.1893 | | 1,953.5974 | 1,953.5974 | 0.0638 | 0.2997 | 2,044.5171 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6446 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |
| Paving | 0.1729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.8175 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |
| Total | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6446 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | 0.0000 | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |
| Paving | 0.1729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.8175 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | 0.0000 | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |
| Total | 0.0352 | 0.0202 | 0.3108 | 9.3000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 94.7498 | 94.7498 | 2.3900e-003 | 2.2500e-003 | 95.4794 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |
| Total | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0131 | 0.5147 | 0.1644 | 2.4300e-003 | 0.0813 | 3.1200e-003 | 0.0844 | 0.0234 | 2.9800e-003 | 0.0264 | | 260.9532 | 260.9532 | 5.3400e-003 | 0.0386 | 272.5827 |
| Worker | 0.1623 | 0.0932 | 1.4343 | 4.2700e-003 | 0.4929 | 2.4400e-003 | 0.4953 | 0.1307 | 2.2500e-003 | 0.1330 | | 437.3070 | 437.3070 | 0.0110 | 0.0104 | 440.6743 |
| Total | 0.1754 | 0.6079 | 1.5987 | 6.7000e-003 | 0.5742 | 5.5600e-003 | 0.5797 | 0.1541 | 5.2300e-003 | 0.1594 | | 698.2602 | 698.2602 | 0.0164 | 0.0490 | 713.2571 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | 0.0000 | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |
| Total | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | 0.0000 | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0131 | 0.5147 | 0.1644 | 2.4300e-003 | 0.0813 | 3.1200e-003 | 0.0844 | 0.0234 | 2.9800e-003 | 0.0264 | | 260.9532 | 260.9532 | 5.3400e-003 | 0.0386 | 272.5827 |
| Worker | 0.1623 | 0.0932 | 1.4343 | 4.2700e-003 | 0.4929 | 2.4400e-003 | 0.4953 | 0.1307 | 2.2500e-003 | 0.1330 | | 437.3070 | 437.3070 | 0.0110 | 0.0104 | 440.6743 |
| Total | 0.1754 | 0.6079 | 1.5987 | 6.7000e-003 | 0.5742 | 5.5600e-003 | 0.5797 | 0.1541 | 5.2300e-003 | 0.1594 | | 698.2602 | 698.2602 | 0.0164 | 0.0490 | 713.2571 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |
| Total | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0127 | 0.5149 | 0.1609 | 2.3900e-003 | 0.0813 | 3.1400e-003 | 0.0844 | 0.0234 | 3.0100e-003 | 0.0264 | | 256.8833 | 256.8833 | 5.3100e-003 | 0.0380 | 268.3314 |
| Worker | 0.1516 | 0.0832 | 1.3368 | 4.1300e-003 | 0.4929 | 2.3300e-003 | 0.4952 | 0.1307 | 2.1400e-003 | 0.1329 | | 426.4567 | 426.4567 | 9.9700e-003 | 9.6700e-003 | 429.5880 |
| Total | 0.1643 | 0.5982 | 1.4977 | 6.5200e-003 | 0.5742 | 5.4700e-003 | 0.5796 | 0.1541 | 5.1500e-003 | 0.1593 | | 683.3400 | 683.3400 | 0.0153 | 0.0476 | 697.9193 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | 0.0000 | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |
| Total | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | 0.0000 | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0127 | 0.5149 | 0.1609 | 2.3900e-003 | 0.0813 | 3.1400e-003 | 0.0844 | 0.0234 | 3.0100e-003 | 0.0264 | | 256.8833 | 256.8833 | 5.3100e-003 | 0.0380 | 268.3314 |
| Worker | 0.1516 | 0.0832 | 1.3368 | 4.1300e-003 | 0.4929 | 2.3300e-003 | 0.4952 | 0.1307 | 2.1400e-003 | 0.1329 | | 426.4567 | 426.4567 | 9.9700e-003 | 9.6700e-003 | 429.5880 |
| Total | 0.1643 | 0.5982 | 1.4977 | 6.5200e-003 | 0.5742 | 5.4700e-003 | 0.5796 | 0.1541 | 5.1500e-003 | 0.1593 | | 683.3400 | 683.3400 | 0.0153 | 0.0476 | 697.9193 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 3.2304 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0325 | 0.0186 | 0.2869 | 8.5000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 87.4614 | 87.4614 | 2.2100e-003 | 2.0700e-003 | 88.1349 |
| Total | 0.0325 | 0.0186 | 0.2869 | 8.5000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 87.4614 | 87.4614 | 2.2100e-003 | 2.0700e-003 | 88.1349 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 3.2304 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0325 | 0.0186 | 0.2869 | 8.5000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 87.4614 | 87.4614 | 2.2100e-003 | 2.0700e-003 | 88.1349 |
| Total | 0.0325 | 0.0186 | 0.2869 | 8.5000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 87.4614 | 87.4614 | 2.2100e-003 | 2.0700e-003 | 88.1349 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 3.2195 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0303 | 0.0167 | 0.2674 | 8.3000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 85.2913 | 85.2913 | 1.9900e-003 | 1.9300e-003 | 85.9176 |
| Total | 0.0303 | 0.0167 | 0.2674 | 8.3000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 85.2913 | 85.2913 | 1.9900e-003 | 1.9300e-003 | 85.9176 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 3.2195 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0303 | 0.0167 | 0.2674 | 8.3000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 85.2913 | 85.2913 | 1.9900e-003 | 1.9300e-003 | 85.9176 |
| Total | 0.0303 | 0.0167 | 0.2674 | 8.3000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 85.2913 | 85.2913 | 1.9900e-003 | 1.9300e-003 | 85.9176 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.6295 | 0.5607 | 5.0525 | 0.0110 | 1.1925 | 7.7700e-003 | 1.2003 | 0.3176 | 7.2400e-003 | 0.3249 | | 1,141.9668 | 1,141.9668 | 0.0677 | 0.0501 | 1,158.5959 |
| Unmitigated | 0.6488 | 0.5942 | 5.3718 | 0.0118 | 1.2898 | 8.3200e-003 | 1.2982 | 0.3435 | 7.7500e-003 | 0.3513 | | 1,232.1352 | 1,232.1352 | 0.0711 | 0.0531 | 1,249.7344 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |

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 |
| Apartments Mid Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |
| Parking Lot | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| NaturalGas Unmitigated | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1515.59 | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |
| Parking Lot | 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 |
| Total | | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1.41919 | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| Parking Lot | 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 |
| Total | | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |

6.0 Area Detail

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Unmitigated | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.3497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9319 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 27.1432 | 0.6001 | 35.8615 | 0.0691 | | 5.0911 | 5.0911 | | 5.0911 | 5.0911 | 552.4759 | 244.5882 | 797.0641 | 0.7560 | 0.0391 | 827.6020 |
| Landscaping | 0.1640 | 0.0627 | 5.4468 | 2.9000e-004 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | | 9.8191 | 9.8191 | 9.4300e-003 | | 10.0548 |
| Total | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.3497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9319 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 27.1432 | 0.6001 | 35.8615 | 0.0691 | | 5.0911 | 5.0911 | | 5.0911 | 5.0911 | 552.4759 | 244.5882 | 797.0641 | 0.7560 | 0.0391 | 827.6020 |
| Landscaping | 0.1640 | 0.0627 | 5.4468 | 2.9000e-004 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | | 9.8191 | 9.8191 | 9.4300e-003 | | 10.0548 |
| Total | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Magnolias Affordable Housing - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Magnolias Affordable Housing

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 67.00 | Space | 0.66 | 28,750.00 | 0 |
| Apartments Mid Rise | 66.00 | Dwelling Unit | 0.87 | 89,800.00 | 189 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 64 |
| Climate Zone | 4 | | | Operational Year | 2025 |
| Utility Company | Pacific Gas and Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 203.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square footage based on applicant provided information.

Construction Phase - Construction phasing based on applicant provided information.

Demolition -

Grading - Total site acreage based on applicant provided information.

Vehicle Trips - Trip generation based on rates in ITE Trip Generation Manual 10th Ed, consistent with the traffic report prepared for the proposed project by Hexagon.

Mobile Land Use Mitigation - Increase in transit accessibility based on applicant-provided information.

Energy Mitigation - Energy mitigation based on applicant-provided information.

Water Mitigation - Water conservation strategy based on applicant-provided information.

Trips and VMT -

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 5.00 |
| tblConstructionPhase | NumDays | 2.00 | 5.00 |
| tblConstructionPhase | NumDays | 4.00 | 5.00 |
| tblConstructionPhase | NumDays | 200.00 | 420.00 |
| tblConstructionPhase | NumDays | 10.00 | 420.00 |
| tblGrading | MaterialExported | 0.00 | 1,774.00 |
| tblGrading | MaterialImported | 0.00 | 1,140.00 |
| tblLandUse | LandUseSquareFeet | 26,800.00 | 28,750.00 |
| tblLandUse | LandUseSquareFeet | 66,000.00 | 89,800.00 |
| tblLandUse | LotAcreage | 0.60 | 0.66 |
| tblLandUse | LotAcreage | 1.74 | 0.87 |
| tblVehicleTrips | ST_TR | 4.91 | 4.02 |
| tblVehicleTrips | SU_TR | 4.09 | 4.02 |
| tblVehicleTrips | WD_TR | 5.44 | 4.02 |

2.0 Emissions Summary

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.9660 | 18.5770 | 16.2406 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1740 | 0.0000 | 4,642.6897 | 4,642.6897 | 0.7093 | 0.4647 | 4,797.0830 |
| 2024 | 4.8390 | 12.9507 | 16.0356 | 0.0320 | 0.6727 | 0.5174 | 1.1902 | 0.1803 | 0.5013 | 0.6816 | 0.0000 | 3,016.1797 | 3,016.1797 | 0.3682 | 0.0514 | 3,040.7063 |
| Maximum | 4.9660 | 18.5770 | 16.2406 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1740 | 0.0000 | 4,642.6897 | 4,642.6897 | 0.7093 | 0.4647 | 4,797.0830 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.9660 | 18.5770 | 16.2406 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1740 | 0.0000 | 4,642.6897 | 4,642.6897 | 0.7093 | 0.4647 | 4,797.0830 |
| 2024 | 4.8390 | 12.9507 | 16.0356 | 0.0320 | 0.6727 | 0.5174 | 1.1902 | 0.1803 | 0.5013 | 0.6816 | 0.0000 | 3,016.1797 | 3,016.1797 | 0.3682 | 0.0514 | 3,040.7063 |
| Maximum | 4.9660 | 18.5770 | 16.2406 | 0.0445 | 7.6907 | 0.6802 | 8.3269 | 3.5875 | 0.6362 | 4.1740 | 0.0000 | 4,642.6897 | 4,642.6897 | 0.7093 | 0.4647 | 4,797.0830 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Energy | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |
| Mobile | 0.5822 | 0.6828 | 5.7716 | 0.0112 | 1.2898 | 8.3300e-003 | 1.2982 | 0.3435 | 7.7600e-003 | 0.3513 | | 1,163.7483 | 1,163.7483 | 0.0806 | 0.0581 | 1,183.0859 |
| Total | 30.1872 | 1.4853 | 47.1393 | 0.0814 | 1.2898 | 5.1409 | 6.4307 | 0.3435 | 5.1403 | 5.4839 | 552.4759 | 1,596.4605 | 2,148.9364 | 0.8494 | 0.1005 | 2,200.1072 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Energy | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| Mobile | 0.5618 | 0.6445 | 5.4627 | 0.0104 | 1.1925 | 7.7700e-003 | 1.2003 | 0.3176 | 7.2400e-003 | 0.3249 | | 1,078.8258 | 1,078.8258 | 0.0771 | 0.0549 | 1,097.1239 |
| Total | 30.1658 | 1.4381 | 46.8265 | 0.0806 | 1.1925 | 5.1396 | 6.3321 | 0.3176 | 5.1391 | 5.4567 | 552.4759 | 1,500.1968 | 2,052.6727 | 0.8458 | 0.0971 | 2,102.7366 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | 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 | 0.07 | 3.18 | 0.66 | 1.07 | 7.54 | 0.02 | 1.53 | 7.54 | 0.02 | 0.50 | 0.00 | 6.03 | 4.48 | 0.43 | 3.38 | 4.43 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 3/1/2023 | 3/7/2023 | 5 | 5 | |
| 2 | Site Preparation | Site Preparation | 3/8/2023 | 3/14/2023 | 5 | 5 | |
| 3 | Grading | Grading | 3/15/2023 | 3/21/2023 | 5 | 5 | |
| 4 | Paving | Paving | 3/22/2023 | 4/4/2023 | 5 | 10 | |
| 5 | Building Construction | Building Construction | 4/5/2023 | 11/12/2024 | 5 | 420 | |
| 6 | Architectural Coating | Architectural Coating | 4/19/2023 | 11/26/2024 | 5 | 420 | |

Acres of Grading (Site Preparation Phase): 4.69

Acres of Grading (Grading Phase): 5

Acres of Paving: 0.66

Residential Indoor: 181,845; Residential Outdoor: 60,615; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,725 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 14.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 222.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 143.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 60.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 12.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6233 | 0.0000 | 0.6233 | 0.0944 | 0.0000 | 0.0944 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.4725 | 14.3184 | 13.4577 | 0.0241 | | 0.6766 | 0.6766 | | 0.6328 | 0.6328 | | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |
| Total | 1.4725 | 14.3184 | 13.4577 | 0.0241 | 0.6233 | 0.6766 | 1.2999 | 0.0944 | 0.6328 | 0.7271 | | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.6300e-003 | 0.3870 | 0.0900 | 1.6900e-003 | 0.0490 | 3.0700e-003 | 0.0521 | 0.0134 | 2.9400e-003 | 0.0164 | | 184.2991 | 184.2991 | 6.0500e-003 | 0.0292 | 193.1536 |
| 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 |
| Worker | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |
| Total | 0.0417 | 0.4119 | 0.3877 | 2.5500e-003 | 0.1558 | 3.6000e-003 | 0.1594 | 0.0418 | 3.4300e-003 | 0.0452 | | 272.3329 | 272.3329 | 8.7700e-003 | 0.0318 | 282.0263 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6233 | 0.0000 | 0.6233 | 0.0944 | 0.0000 | 0.0944 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.4725 | 14.3184 | 13.4577 | 0.0241 | | 0.6766 | 0.6766 | | 0.6328 | 0.6328 | 0.0000 | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |
| Total | 1.4725 | 14.3184 | 13.4577 | 0.0241 | 0.6233 | 0.6766 | 1.2999 | 0.0944 | 0.6328 | 0.7271 | 0.0000 | 2,324.3959 | 2,324.3959 | 0.5893 | | 2,339.1278 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 5.6300e-003 | 0.3870 | 0.0900 | 1.6900e-003 | 0.0490 | 3.0700e-003 | 0.0521 | 0.0134 | 2.9400e-003 | 0.0164 | | 184.2991 | 184.2991 | 6.0500e-003 | 0.0292 | 193.1536 |
| 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 |
| Worker | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |
| Total | 0.0417 | 0.4119 | 0.3877 | 2.5500e-003 | 0.1558 | 3.6000e-003 | 0.1594 | 0.0418 | 3.4300e-003 | 0.0452 | | 272.3329 | 272.3329 | 8.7700e-003 | 0.0318 | 282.0263 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3042 | 0.0000 | 6.3042 | 3.0099 | 0.0000 | 3.0099 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1339 | 12.4250 | 6.6420 | 0.0172 | | 0.5074 | 0.5074 | | 0.4668 | 0.4668 | | 1,666.0573 | 1,666.0573 | 0.5388 | | 1,679.5282 |
| Total | 1.1339 | 12.4250 | 6.6420 | 0.0172 | 6.3042 | 0.5074 | 6.8116 | 3.0099 | 0.4668 | 3.4767 | | 1,666.0573 | 1,666.0573 | 0.5388 | | 1,679.5282 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0893 | 6.1367 | 1.4273 | 0.0268 | 0.7766 | 0.0487 | 0.8253 | 0.2129 | 0.0466 | 0.2595 | | 2,922.4578 | 2,922.4578 | 0.0959 | 0.4631 | 3,062.8638 |
| 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 |
| Worker | 0.0222 | 0.0153 | 0.1832 | 5.3000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 54.1746 | 54.1746 | 1.6700e-003 | 1.5900e-003 | 54.6909 |
| Total | 0.1115 | 6.1520 | 1.6105 | 0.0273 | 0.8423 | 0.0491 | 0.8914 | 0.2303 | 0.0469 | 0.2772 | | 2,976.6325 | 2,976.6325 | 0.0976 | 0.4647 | 3,117.5548 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3042 | 0.0000 | 6.3042 | 3.0099 | 0.0000 | 3.0099 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1339 | 12.4250 | 6.6420 | 0.0172 | | 0.5074 | 0.5074 | | 0.4668 | 0.4668 | 0.0000 | 1,666.057 3 | 1,666.057 3 | 0.5388 | | 1,679.528 2 |
| Total | 1.1339 | 12.4250 | 6.6420 | 0.0172 | 6.3042 | 0.5074 | 6.8116 | 3.0099 | 0.4668 | 3.4767 | 0.0000 | 1,666.057 3 | 1,666.057 3 | 0.5388 | | 1,679.528 2 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0893 | 6.1367 | 1.4273 | 0.0268 | 0.7766 | 0.0487 | 0.8253 | 0.2129 | 0.0466 | 0.2595 | | 2,922.457 8 | 2,922.457 8 | 0.0959 | 0.4631 | 3,062.863 8 |
| 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 |
| Worker | 0.0222 | 0.0153 | 0.1832 | 5.3000e-004 | 0.0657 | 3.3000e-004 | 0.0660 | 0.0174 | 3.0000e-004 | 0.0177 | | 54.1746 | 54.1746 | 1.6700e-003 | 1.5900e-003 | 54.6909 |
| Total | 0.1115 | 6.1520 | 1.6105 | 0.0273 | 0.8423 | 0.0491 | 0.8914 | 0.2303 | 0.0469 | 0.2772 | | 2,976.632 5 | 2,976.632 5 | 0.0976 | 0.4647 | 3,117.554 8 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.1084 | 0.0000 | 7.1084 | 3.4286 | 0.0000 | 3.4286 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.1084 | 0.6044 | 7.7127 | 3.4286 | 0.5560 | 3.9846 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0575 | 3.9529 | 0.9194 | 0.0173 | 0.5002 | 0.0314 | 0.5316 | 0.1371 | 0.0300 | 0.1672 | | 1,882.4841 | 1,882.4841 | 0.0618 | 0.2983 | 1,972.9258 |
| 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 |
| Worker | 0.0277 | 0.0192 | 0.2290 | 6.6000e-004 | 0.0822 | 4.1000e-004 | 0.0826 | 0.0218 | 3.8000e-004 | 0.0222 | | 67.7183 | 67.7183 | 2.0900e-003 | 1.9900e-003 | 68.3637 |
| Total | 0.0852 | 3.9721 | 1.1484 | 0.0179 | 0.5824 | 0.0318 | 0.6142 | 0.1589 | 0.0304 | 0.1893 | | 1,950.2024 | 1,950.2024 | 0.0639 | 0.3003 | 2,041.2895 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.1084 | 0.0000 | 7.1084 | 3.4286 | 0.0000 | 3.4286 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.1084 | 0.6044 | 7.7127 | 3.4286 | 0.5560 | 3.9846 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0575 | 3.9529 | 0.9194 | 0.0173 | 0.5002 | 0.0314 | 0.5316 | 0.1371 | 0.0300 | 0.1672 | | 1,882.4841 | 1,882.4841 | 0.0618 | 0.2983 | 1,972.9258 |
| 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 |
| Worker | 0.0277 | 0.0192 | 0.2290 | 6.6000e-004 | 0.0822 | 4.1000e-004 | 0.0826 | 0.0218 | 3.8000e-004 | 0.0222 | | 67.7183 | 67.7183 | 2.0900e-003 | 1.9900e-003 | 68.3637 |
| Total | 0.0852 | 3.9721 | 1.1484 | 0.0179 | 0.5824 | 0.0318 | 0.6142 | 0.1589 | 0.0304 | 0.1893 | | 1,950.2024 | 1,950.2024 | 0.0639 | 0.3003 | 2,041.2895 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6446 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |
| Paving | 0.1729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.8175 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |
| Total | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6446 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | 0.0000 | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |
| Paving | 0.1729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.8175 | 6.2357 | 8.8024 | 0.0136 | | 0.3084 | 0.3084 | | 0.2846 | 0.2846 | 0.0000 | 1,297.6880 | 1,297.6880 | 0.4114 | | 1,307.9725 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |
| Total | 0.0361 | 0.0249 | 0.2976 | 8.6000e-004 | 0.1068 | 5.3000e-004 | 0.1073 | 0.0283 | 4.9000e-004 | 0.0288 | | 88.0338 | 88.0338 | 2.7200e-003 | 2.5900e-003 | 88.8728 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |
| Total | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0126 | 0.5446 | 0.1700 | 2.4400e-003 | 0.0813 | 3.1300e-003 | 0.0844 | 0.0234 | 2.9900e-003 | 0.0264 | | 261.3265 | 261.3265 | 5.3100e-003 | 0.0387 | 272.9844 |
| Worker | 0.1665 | 0.1150 | 1.3737 | 3.9700e-003 | 0.4929 | 2.4400e-003 | 0.4953 | 0.1307 | 2.2500e-003 | 0.1330 | | 406.3098 | 406.3098 | 0.0125 | 0.0119 | 410.1820 |
| Total | 0.1791 | 0.6597 | 1.5437 | 6.4100e-003 | 0.5742 | 5.5700e-003 | 0.5797 | 0.1541 | 5.2400e-003 | 0.1594 | | 667.6363 | 667.6363 | 0.0178 | 0.0506 | 683.1664 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | 0.0000 | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |
| Total | 1.5233 | 11.7104 | 12.6111 | 0.0221 | | 0.5145 | 0.5145 | | 0.4968 | 0.4968 | 0.0000 | 2,001.7877 | 2,001.7877 | 0.3399 | | 2,010.2858 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0126 | 0.5446 | 0.1700 | 2.4400e-003 | 0.0813 | 3.1300e-003 | 0.0844 | 0.0234 | 2.9900e-003 | 0.0264 | | 261.3265 | 261.3265 | 5.3100e-003 | 0.0387 | 272.9844 |
| Worker | 0.1665 | 0.1150 | 1.3737 | 3.9700e-003 | 0.4929 | 2.4400e-003 | 0.4953 | 0.1307 | 2.2500e-003 | 0.1330 | | 406.3098 | 406.3098 | 0.0125 | 0.0119 | 410.1820 |
| Total | 0.1791 | 0.6597 | 1.5437 | 6.4100e-003 | 0.5742 | 5.5700e-003 | 0.5797 | 0.1541 | 5.2400e-003 | 0.1594 | | 667.6363 | 667.6363 | 0.0178 | 0.0506 | 683.1664 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |
| Total | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0122 | 0.5449 | 0.1664 | 2.4000e-003 | 0.0813 | 3.1500e-003 | 0.0844 | 0.0234 | 3.0200e-003 | 0.0264 | | 257.2593 | 257.2593 | 5.2800e-003 | 0.0381 | 268.7348 |
| Worker | 0.1561 | 0.1027 | 1.2849 | 3.8400e-003 | 0.4929 | 2.3300e-003 | 0.4952 | 0.1307 | 2.1400e-003 | 0.1329 | | 396.2924 | 396.2924 | 0.0114 | 0.0111 | 399.8925 |
| Total | 0.1683 | 0.6476 | 1.4513 | 6.2400e-003 | 0.5742 | 5.4800e-003 | 0.5796 | 0.1541 | 5.1600e-003 | 0.1593 | | 653.5517 | 653.5517 | 0.0167 | 0.0492 | 668.6273 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Building Construction - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | 0.0000 | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |
| Total | 1.4200 | 11.0639 | 12.5172 | 0.0221 | | 0.4506 | 0.4506 | | 0.4348 | 0.4348 | 0.0000 | 2,001.9214 | 2,001.9214 | 0.3334 | | 2,010.2563 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Vendor | 0.0122 | 0.5449 | 0.1664 | 2.4000e-003 | 0.0813 | 3.1500e-003 | 0.0844 | 0.0234 | 3.0200e-003 | 0.0264 | | 257.2593 | 257.2593 | 5.2800e-003 | 0.0381 | 268.7348 |
| Worker | 0.1561 | 0.1027 | 1.2849 | 3.8400e-003 | 0.4929 | 2.3300e-003 | 0.4952 | 0.1307 | 2.1400e-003 | 0.1329 | | 396.2924 | 396.2924 | 0.0114 | 0.0111 | 399.8925 |
| Total | 0.1683 | 0.6476 | 1.4513 | 6.2400e-003 | 0.5742 | 5.4800e-003 | 0.5796 | 0.1541 | 5.1600e-003 | 0.1593 | | 653.5517 | 653.5517 | 0.0167 | 0.0492 | 668.6273 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 3.2304 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0333 | 0.0230 | 0.2747 | 7.9000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 81.2620 | 81.2620 | 2.5100e-003 | 2.3900e-003 | 82.0364 |
| Total | 0.0333 | 0.0230 | 0.2747 | 7.9000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 81.2620 | 81.2620 | 2.5100e-003 | 2.3900e-003 | 82.0364 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 3.2304 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0333 | 0.0230 | 0.2747 | 7.9000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 81.2620 | 81.2620 | 2.5100e-003 | 2.3900e-003 | 82.0364 |
| Total | 0.0333 | 0.0230 | 0.2747 | 7.9000e-004 | 0.0986 | 4.9000e-004 | 0.0991 | 0.0262 | 4.5000e-004 | 0.0266 | | 81.2620 | 81.2620 | 2.5100e-003 | 2.3900e-003 | 82.0364 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 3.2195 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0312 | 0.0205 | 0.2570 | 7.7000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 79.2585 | 79.2585 | 2.2700e-003 | 2.2300e-003 | 79.9785 |
| Total | 0.0312 | 0.0205 | 0.2570 | 7.7000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 79.2585 | 79.2585 | 2.2700e-003 | 2.2300e-003 | 79.9785 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2024

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 3.0387 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 3.2195 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| 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 |
| Worker | 0.0312 | 0.0205 | 0.2570 | 7.7000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 79.2585 | 79.2585 | 2.2700e-003 | 2.2300e-003 | 79.9785 |
| Total | 0.0312 | 0.0205 | 0.2570 | 7.7000e-004 | 0.0986 | 4.7000e-004 | 0.0990 | 0.0262 | 4.3000e-004 | 0.0266 | | 79.2585 | 79.2585 | 2.2700e-003 | 2.2300e-003 | 79.9785 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.5618 | 0.6445 | 5.4627 | 0.0104 | 1.1925 | 7.7700e-003 | 1.2003 | 0.3176 | 7.2400e-003 | 0.3249 | | 1,078.8258 | 1,078.8258 | 0.0771 | 0.0549 | 1,097.1239 |
| Unmitigated | 0.5822 | 0.6828 | 5.7716 | 0.0112 | 1.2898 | 8.3300e-003 | 1.2982 | 0.3435 | 7.7600e-003 | 0.3513 | | 1,163.7483 | 1,163.7483 | 0.0806 | 0.0581 | 1,183.0859 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 265.32 | 265.32 | 265.32 | 612,785 | 566,555 |

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 |
| Apartments Mid Rise | 10.80 | 4.80 | 5.70 | 31.00 | 15.00 | 54.00 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |
| Parking Lot | 0.553839 | 0.058700 | 0.188468 | 0.120786 | 0.022796 | 0.005663 | 0.010629 | 0.007566 | 0.000983 | 0.000556 | 0.026354 | 0.000841 | 0.002820 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| NaturalGas Unmitigated | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1515.59 | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |
| Parking Lot | 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 |
| Total | | 0.0163 | 0.1397 | 0.0594 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | | 178.3049 | 178.3049 | 3.4200e-003 | 3.2700e-003 | 179.3645 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1.41919 | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |
| Parking Lot | 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 |
| Total | | 0.0153 | 0.1308 | 0.0557 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.9637 | 166.9637 | 3.2000e-003 | 3.0600e-003 | 167.9559 |

6.0 Area Detail

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |
| Unmitigated | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.3497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9319 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 27.1432 | 0.6001 | 35.8615 | 0.0691 | | 5.0911 | 5.0911 | | 5.0911 | 5.0911 | 552.4759 | 244.5882 | 797.0641 | 0.7560 | 0.0391 | 827.6020 |
| Landscaping | 0.1640 | 0.0627 | 5.4468 | 2.9000e-004 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | | 9.8191 | 9.8191 | 9.4300e-003 | | 10.0548 |
| Total | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.3497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9319 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 27.1432 | 0.6001 | 35.8615 | 0.0691 | | 5.0911 | 5.0911 | | 5.0911 | 5.0911 | 552.4759 | 244.5882 | 797.0641 | 0.7560 | 0.0391 | 827.6020 |
| Landscaping | 0.1640 | 0.0627 | 5.4468 | 2.9000e-004 | | 0.0302 | 0.0302 | | 0.0302 | 0.0302 | | 9.8191 | 9.8191 | 9.4300e-003 | | 10.0548 |
| Total | 29.5887 | 0.6628 | 41.3082 | 0.0694 | | 5.1213 | 5.1213 | | 5.1213 | 5.1213 | 552.4759 | 254.4074 | 806.8832 | 0.7655 | 0.0391 | 837.6568 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Magnolias Affordable Housing - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

| Phase | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Demolition | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

OFFROAD Equipment Mitigation

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | Fuel Type | Tier | Number Mitigated | Total Number of Equipment | DPF | Oxidation Catalyst |
|---------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Air Compressors | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cement and Mortar Mixers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Concrete/Industrial Saws | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cranes | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Forklifts | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Generator Sets | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Graders | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Pavers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Paving Equipment | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Rollers | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Rubber Tired Dozers | Diesel | No Change | 0 | 3 | No Change | 0.00 |
| Tractors/Loaders/Backhoes | Diesel | No Change | 0 | 8 | No Change | 0.00 |
| Welders | Diesel | No Change | 0 | 3 | No Change | 0.00 |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| Unmitigated tons/yr | | | | | | | Unmitigated mt/yr | | | | | |
| Air Compressors | 3.89600E-002 | 2.63650E-001 | 3.80220E-001 | 6.20000E-004 | 1.37000E-002 | 1.37000E-002 | 0.00000E+000 | 5.36183E+001 | 5.36183E+001 | 3.10000E-003 | 0.00000E+000 | 5.36959E+001 |
| Cement and Mortar Mixers | 2.20000E-004 | 1.38000E-003 | 1.16000E-003 | 0.00000E+000 | 5.00000E-005 | 5.00000E-005 | 0.00000E+000 | 1.71850E-001 | 1.71850E-001 | 2.00000E-005 | 0.00000E+000 | 1.72300E-001 |
| Concrete/Industrial Saws | 8.30000E-004 | 6.46000E-003 | 9.14000E-003 | 2.00000E-005 | 3.20000E-004 | 3.20000E-004 | 0.00000E+000 | 1.34414E+000 | 1.34414E+000 | 7.00000E-005 | 0.00000E+000 | 1.34580E+000 |
| Cranes | 5.36700E-002 | 5.74450E-001 | 2.83840E-001 | 9.10000E-004 | 2.39400E-002 | 2.20300E-002 | 0.00000E+000 | 7.98441E+001 | 7.98441E+001 | 2.58200E-002 | 0.00000E+000 | 8.04897E+001 |
| Forklifts | 1.54400E-002 | 1.44670E-001 | 1.79840E-001 | 2.40000E-004 | 8.64000E-003 | 7.94000E-003 | 0.00000E+000 | 2.11509E+001 | 2.11509E+001 | 6.84000E-003 | 0.00000E+000 | 2.13219E+001 |
| Generator Sets | 6.18700E-002 | 5.50860E-001 | 7.69940E-001 | 1.38000E-003 | 2.49500E-002 | 2.49500E-002 | 0.00000E+000 | 1.18694E+002 | 1.18694E+002 | 5.00000E-003 | 0.00000E+000 | 1.18818E+002 |
| Graders | 1.92000E-003 | 2.32700E-002 | 8.46000E-003 | 3.00000E-005 | 7.50000E-004 | 6.90000E-004 | 0.00000E+000 | 2.90687E+000 | 2.90687E+000 | 9.40000E-004 | 0.00000E+000 | 2.93037E+000 |
| Pavers | 7.20000E-004 | 7.06000E-003 | 1.08100E-002 | 2.00000E-005 | 3.30000E-004 | 3.10000E-004 | 0.00000E+000 | 1.54862E+000 | 1.54862E+000 | 5.00000E-004 | 0.00000E+000 | 1.56114E+000 |
| Paving Equipment | 8.50000E-004 | 8.01000E-003 | 1.27800E-002 | 2.00000E-005 | 3.90000E-004 | 3.60000E-004 | 0.00000E+000 | 1.78927E+000 | 1.78927E+000 | 5.80000E-004 | 0.00000E+000 | 1.80374E+000 |
| Rollers | 6.70000E-004 | 7.04000E-003 | 8.10000E-003 | 1.00000E-005 | 3.90000E-004 | 3.60000E-004 | 0.00000E+000 | 1.00854E+000 | 1.00854E+000 | 3.30000E-004 | 0.00000E+000 | 1.01669E+000 |
| Rubber Tired Dozers | 4.92000E-003 | 5.12300E-002 | 2.23300E-002 | 6.00000E-005 | 2.31000E-003 | 2.12000E-003 | 0.00000E+000 | 5.39237E+000 | 5.39237E+000 | 1.74000E-003 | 0.00000E+000 | 5.43597E+000 |
| Tractors/Loaders/Backhoes | 2.61400E-002 | 2.64180E-001 | 3.95030E-001 | 5.50000E-004 | 1.26100E-002 | 1.16000E-002 | 0.00000E+000 | 4.84051E+001 | 4.84051E+001 | 1.56600E-002 | 0.00000E+000 | 4.87965E+001 |
| Welders | 1.53970E-001 | 8.81400E-001 | 1.05225E+000 | 1.61000E-003 | 3.21200E-002 | 3.21200E-002 | 0.00000E+000 | 1.18579E+002 | 1.18579E+002 | 1.24900E-002 | 0.00000E+000 | 1.18891E+002 |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Mitigated tons/yr | | | | | | | Mitigated mt/yr | | | | | |
| Air Compressors | 3.89600E-002 | 2.63650E-001 | 3.80220E-001 | 6.20000E-004 | 1.37000E-002 | 1.37000E-002 | 0.00000E+000 | 5.36183E+001 | 5.36183E+001 | 3.10000E-003 | 0.00000E+000 | 5.36958E+001 |
| Cement and Mortar Mixers | 2.20000E-004 | 1.38000E-003 | 1.16000E-003 | 0.00000E+000 | 5.00000E-005 | 5.00000E-005 | 0.00000E+000 | 1.71850E-001 | 1.71850E-001 | 2.00000E-005 | 0.00000E+000 | 1.72300E-001 |
| Concrete/Industrial Saws | 8.30000E-004 | 6.46000E-003 | 9.14000E-003 | 2.00000E-005 | 3.20000E-004 | 3.20000E-004 | 0.00000E+000 | 1.34414E+000 | 1.34414E+000 | 7.00000E-005 | 0.00000E+000 | 1.34580E+000 |
| Cranes | 5.36700E-002 | 5.74450E-001 | 2.83840E-001 | 9.10000E-004 | 2.39400E-002 | 2.20300E-002 | 0.00000E+000 | 7.98440E+001 | 7.98440E+001 | 2.58200E-002 | 0.00000E+000 | 8.04896E+001 |
| Forklifts | 1.54400E-002 | 1.44670E-001 | 1.79840E-001 | 2.40000E-004 | 8.64000E-003 | 7.94000E-003 | 0.00000E+000 | 2.11509E+001 | 2.11509E+001 | 6.84000E-003 | 0.00000E+000 | 2.13219E+001 |
| Generator Sets | 6.18700E-002 | 5.50860E-001 | 7.69940E-001 | 1.38000E-003 | 2.49500E-002 | 2.49500E-002 | 0.00000E+000 | 1.18693E+002 | 1.18693E+002 | 5.00000E-003 | 0.00000E+000 | 1.18818E+002 |
| Graders | 1.92000E-003 | 2.32700E-002 | 8.46000E-003 | 3.00000E-005 | 7.50000E-004 | 6.90000E-004 | 0.00000E+000 | 2.90687E+000 | 2.90687E+000 | 9.40000E-004 | 0.00000E+000 | 2.93037E+000 |
| Pavers | 7.20000E-004 | 7.06000E-003 | 1.08100E-002 | 2.00000E-005 | 3.30000E-004 | 3.10000E-004 | 0.00000E+000 | 1.54862E+000 | 1.54862E+000 | 5.00000E-004 | 0.00000E+000 | 1.56114E+000 |
| Paving Equipment | 8.50000E-004 | 8.01000E-003 | 1.27800E-002 | 2.00000E-005 | 3.90000E-004 | 3.60000E-004 | 0.00000E+000 | 1.78927E+000 | 1.78927E+000 | 5.80000E-004 | 0.00000E+000 | 1.80374E+000 |
| Rollers | 6.70000E-004 | 7.04000E-003 | 8.10000E-003 | 1.00000E-005 | 3.90000E-004 | 3.60000E-004 | 0.00000E+000 | 1.00854E+000 | 1.00854E+000 | 3.30000E-004 | 0.00000E+000 | 1.01669E+000 |
| Rubber Tired Dozers | 4.92000E-003 | 5.12300E-002 | 2.23300E-002 | 6.00000E-005 | 2.31000E-003 | 2.12000E-003 | 0.00000E+000 | 5.39236E+000 | 5.39236E+000 | 1.74000E-003 | 0.00000E+000 | 5.43596E+000 |
| Tractors/Loaders/Balckhoes | 2.61400E-002 | 2.64180E-001 | 3.95030E-001 | 5.50000E-004 | 1.26100E-002 | 1.16000E-002 | 0.00000E+000 | 4.84051E+001 | 4.84051E+001 | 1.56600E-002 | 0.00000E+000 | 4.87965E+001 |
| Welders | 1.53970E-001 | 8.81390E-001 | 1.05225E+000 | 1.61000E-003 | 3.21200E-002 | 3.21200E-002 | 0.00000E+000 | 1.18579E+002 | 1.18579E+002 | 1.24900E-002 | 0.00000E+000 | 1.18891E+002 |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction | | | | | | | | | | | | |
| Air Compressors | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.30552E-006 | 1.30552E-006 | 0.00000E+000 | 0.00000E+000 | 1.11740E-006 |
| Cement and Mortar Mixers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Concrete/Industrial Saws | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Cranes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.25244E-006 | 1.25244E-006 | 0.00000E+000 | 0.00000E+000 | 1.24240E-006 |
| Forklifts | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 9.45587E-007 | 9.45587E-007 | 0.00000E+000 | 0.00000E+000 | 1.40700E-006 |
| Generator Sets | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.26376E-006 | 1.26376E-006 | 0.00000E+000 | 0.00000E+000 | 1.17827E-006 |
| Graders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Pavers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Paving Equipment | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rollers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rubber Tired Dozers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.85447E-006 | 1.85447E-006 | 0.00000E+000 | 0.00000E+000 | 1.83960E-006 |
| Tractors/Loaders/Balckhoes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.03295E-006 | 1.03295E-006 | 0.00000E+000 | 0.00000E+000 | 1.02466E-006 |
| Welders | 0.00000E+000 | 1.13456E-005 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.18065E-006 | 1.18065E-006 | 0.00000E+000 | 0.00000E+000 | 1.26166E-006 |

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

| | | | | |
|----|-----------------------------------|----------------|-----------------|--|
| No | Soil Stabilizer for unpaved Roads | PM10 Reduction | PM2.5 Reduction | |
|----|-----------------------------------|----------------|-----------------|--|

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | |
|----|--|--------------------|------|---------------------|------|---------------------|--|
| No | Replace Ground Cover of Area Disturbed | PM10 Reduction | | PM2.5 Reduction | | | |
| No | Water Exposed Area | PM10 Reduction | | PM2.5 Reduction | | Frequency (per day) | |
| No | Unpaved Road Mitigation | Moisture Content % | | Vehicle Speed (mph) | 0.00 | | |
| No | Clean Paved Road | % PM Reduction | 0.00 | | | | |

| Phase | Source | Unmitigated | | Mitigated | | Percent Reduction | |
|-----------------------|---------------|-------------|-------|-----------|-------|-------------------|-------|
| | | PM10 | PM2.5 | PM10 | PM2.5 | PM10 | PM2.5 |
| Architectural Coating | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | Roads | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 |
| Building Construction | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | Roads | 0.12 | 0.03 | 0.12 | 0.03 | 0.00 | 0.00 |
| Demolition | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Demolition | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading | Fugitive Dust | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 |
| Grading | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | Fugitive Dust | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 |
| Site Preparation | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Percent Reduction Summary

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|-------|-------|-------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mobile | 3.40 | 5.62 | 5.54 | 7.35 | 6.62 | 6.38 | 0.00 | 7.30 | 7.30 | 4.54 | 5.53 | 7.27 |
| Natural Gas | 6.38 | 6.36 | 6.36 | 6.25 | 6.31 | 6.31 | 0.00 | 6.36 | 6.36 | 7.02 | 5.56 | 6.36 |
| Water Indoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.01 | 35.00 |
| Water Outdoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Mobile Mitigation

Project Setting: Suburban Center

| Mitigation | Category | Measure | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-------------------------------------|-------------|---------------|---------------|---------------|
| No | Land Use | Increase Density | 0.00 | 0.00 | 0.00 | |
| No | Land Use | Increase Diversity | 0.06 | 0.25 | | |
| No | Land Use | Improve Walkability Design | 0.00 | 0.00 | | |
| No | Land Use | Improve Destination Accessibility | 0.00 | 0.00 | | |
| Yes | Land Use | Increase Transit Accessibility | 0.08 | 0.60 | | |
| No | Land Use | Integrate Below Market Rate Housing | 0.00 | 0.00 | | |
| | Land Use | Land Use SubTotal | 0.08 | | | |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|----|---------------------------|--|------|------|------|
| No | Neighborhood Enhancements | Improve Pedestrian Network | | | |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures | | | |
| No | Neighborhood Enhancements | Implement NEV Network | 0.00 | | |
| | Neighborhood Enhancements | Neighborhood Enhancements Subtotal | 0.00 | | |
| No | Parking Policy Pricing | Limit Parking Supply | 0.00 | 0.00 | |
| No | Parking Policy Pricing | Unbundle Parking Costs | 0.00 | 0.00 | |
| No | Parking Policy Pricing | On-street Market Pricing | 0.00 | 0.00 | |
| | Parking Policy Pricing | Parking Policy Pricing Subtotal | 0.00 | | |
| No | Transit Improvements | Provide BRT System | 0.00 | 0.00 | |
| No | Transit Improvements | Expand Transit Network | 0.00 | 0.00 | |
| No | Transit Improvements | Increase Transit Frequency | 0.00 | | 0.00 |
| | Transit Improvements | Transit Improvements Subtotal | 0.00 | | |
| | | Land Use and Site Enhancement Subtotal | 0.08 | | |
| No | Commute | Implement Trip Reduction Program | | | |
| No | Commute | Transit Subsidy | | | |
| No | Commute | Implement Employee Parking "Cash Out" | 4.50 | | |
| No | Commute | Workplace Parking Charge | | 0.00 | |
| No | Commute | Encourage Telecommuting and Alternative Work Schedules | 0.00 | | |
| No | Commute | Market Commute Trip Reduction Option | 0.00 | | |
| No | Commute | Employee Vanpool/Shuttle | 0.00 | | 2.00 |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|----|-------------|------------------------------|-------|--|--|
| No | Commute | Provide Ride Sharing Program | 10.00 | | |
| | Commute | Commute Subtotal | 0.00 | | |
| No | School Trip | Implement School Bus Program | 0.00 | | |
| | | Total VMT Reduction | 0.08 | | |

Area Mitigation

| Measure Implemented | Mitigation Measure | Input Value |
|---------------------|--|-------------|
| No | Only Natural Gas Hearth | |
| No | No Hearth | |
| No | Use Low VOC Cleaning Supplies | |
| No | Use Low VOC Paint (Residential Interior) | 100.00 |
| No | Use Low VOC Paint (Residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Non-residential Interior) | 100.00 |
| No | Use Low VOC Paint (Non-residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Parking) | 150.00 |
| No | % Electric Lawnmower | |
| No | % Electric Leafblower | |
| No | % Electric Chainsaw | |

Energy Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--------------------|---------------|---------------|
| Yes | Exceed Title 24 | 10.20 | |

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----|----------------------------------|--------|------|
| No | Install High Efficiency Lighting | 0.00 | |
| Yes | On-site Renewable | 234.90 | 0.00 |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher | | 30.00 |
| DishWasher | | 15.00 |
| Fan | | 50.00 |
| Refrigerator | | 15.00 |

Water Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--|---------------|---------------|
| Yes | Apply Water Conservation on Strategy | 35.00 | 35.00 |
| No | Use Reclaimed Water | 0.00 | 0.00 |
| No | Use Grey Water | 0.00 | |
| No | Install low-flow bathroom faucet | 32.00 | |
| No | Install low-flow Kitchen faucet | 18.00 | |
| No | Install low-flow Toilet | 20.00 | |
| No | Install low-flow Shower | 20.00 | |
| No | Turf Reduction | 0.00 | |
| No | Use Water Efficient Irrigation Systems | 6.10 | |
| No | Water Efficient Landscape | 0.00 | 0.00 |

Solid Waste Mitigation

Magnolias Affordable Housing

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Mitigation Measures | Input Value |
|--|-------------|
| Institute Recycling and Composting Services Percent Reduction in Waste Disposed | |