

Appendix H: CalEEMod Modeling

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H.1 - Memorandum

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Memo

Date: July 24, 2018

To: County of San Bernardino, California
Advance Planning Division
Land Use Services Department

From: Jason Paukovits, Senior Air Quality/Greenhouse Gas Scientist, FirstCarbon Solutions

Subject: Moon Camp Air Quality Memorandum

PROJECT ANALYSIS METHODOLOGY AND RESULTS

Regional Air Quality Significance Thresholds

The South Coast Air Quality Management District (SCAQMD) regional thresholds apply to all aspects of the project including construction and operations. The mass emission-based regional thresholds were established because a project’s emissions could potentially contribute to the basin’s regional emission burden and affect air quality many miles away from a project location. The SCAQMD recommends regional significance thresholds for volatile organic compounds (VOC), nitrogen oxides (NO_x), sulfur oxides (SO_x), carbon monoxide (CO), and particulate matter (PM₁₀, and PM_{2.5}). Any construction or operational-related emissions from the project in excess of any of the thresholds presented in Table 1 would be considered to result in a significant impact.

Table 1: SCAQMD Regional Significance Thresholds

| Pollutant | Mass Daily Thresholds (lbs/day) | |
|-------------------|---------------------------------|-----------|
| | Construction | Operation |
| NO _x | 100 | 55 |
| VOC | 75 | 55 |
| PM ₁₀ | 150 | 150 |
| PM _{2.5} | 55 | 55 |
| SO _x | 150 | 150 |
| CO | 550 | 550 |

Notes:
From SCAQMD CEQA Handbook
NO_x = nitrogen oxides
SO_x = sulfur oxides



| Pollutant | Mass Daily Thresholds (lbs/day) | |
|---|---------------------------------|-----------|
| | Construction | Operation |
| VOC = Volatile Organic Compounds CO = carbon monoxide PM ₁₀ = particulate matter with an aerodynamic resistance diameter of 10 micrometers or less; PM _{2.5} = particulate matter with an aerodynamic resistance diameter of 2.5 micrometers | | |

Local Air Quality Significance Thresholds (LSTs)

The SCAQMD has developed localized significance threshold (LST) methodology that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts. LSTs are only applicable to NO_x, CO, PM₁₀, and PM_{2.5} emissions. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

The SCAQMD created a series of lookup tables that present the maximum emissions (i.e., LSTs) that a project can emit without contributing to an existing or new air quality standard exceedance. The latest version of threshold values was developed between 2006 and 2008. The value of the LST depends on the project location, size of the project area, and distance to the nearest sensitive receptor. The project is located within SRA 38 (East San Bernardino Mountains). The nearest sensitive receptors from the project site would be in the residential area located 25 meters. Therefore, on-site emissions from construction activities were compared with the 2006-2008 LSTs for a 5-acre site in SRA 38 at a distance of 25 meters to the nearest receptors.

CalEEMod

The California Emissions Estimator Model (CalEEMod), developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with several California air districts, is a statewide land use emissions model designed to estimate air quality criteria pollutant emissions associated with construction and operations of a project. The latest version of CalEEMod, version 2016.3.2, incorporates the California Air Resources Board (CARB) OFFROAD and EMFAC 2014 emission factors, and the 2016 update to the Title 24, Part 6 standard (California Building Standards Code).

Construction

The project consists of 50 single family houses and 4.24 acres of paved surfaces, which include parking lots and new roadways. The analysis assumes that project construction would start in January 2018 and would last for a year. Construction activities include grading, building construction, paving and architectural coating. There are no existing buildings or hardscape surfaces onsite. The cut and fill would

be balanced on-site. The construction emissions estimated using the latest CalEEMod model are provided in Table 2.

As noted from Table 2, with the exception of NO_x emissions, the estimated construction emissions from the CalEEMod model are lower than the corresponding emissions shown in RRDEIR No.1. Further, none of the emissions estimated using the CalEEMod model exceed any of the regional or localized emission significance thresholds. The estimated emissions shown in RRDEIR No.1 (Table 4.2-6), however, exceed the SCAQMD's localized significance thresholds for PM₁₀ and PM_{2.5} thereby requiring mitigation. After mitigation, as shown in Table 4.2-7 of the RRDEIR No.1 (page 4.2-32), the project's construction emissions would not exceed any SCAQMD's construction emission significance thresholds. This analysis demonstrates that the construction emissions contained in the RRDEIR No.1 provide a conservative emission estimate (in terms of overestimating construction emissions) when compared to those emissions calculated using the most up-to-date emissions estimating model, CalEEMod. Therefore, the project's construction emissions provided in the RRDEIR No.1 are sufficient in describing the impacts of the project's construction emissions.

Table 2: Comparison of Project Emission—Construction (Unmitigated)

| Analysis | Construction Criteria Pollutants (pounds/day) | | | | |
|--|--|-----------------|-------|---|--|
| | VOC | NO _x | CO | PM ₁₀ | PM _{2.5} |
| RRDEIR No.1 (Table 4.2-6) | 69.3 | 53.3 | 68.7 | 43.5 | 10.5 |
| CalEEMod (new) ⁽¹⁾ | 54.3 | 59.6 | 36.2 | 11.5 | 6.1 |
| SCAQMD Regional Construction Threshold | 75 | 100 | 550 | 150 | 55 |
| Significant Impact? | No | No | No | No | No |
| Local Significant Threshold ⁽²⁾ | N/A | 270 | 2,075 | 14 | 9 |
| Significant Impact? | | No | No | Yes in RRDEIR No. 1 No for CalEEMod | Yes for RRDEIR No. 1 No for CalEEMod |

Notes:

- (1) Although the localized analysis is typically based on a comparison of on-site emissions to the LSTs, the table conservatively includes the total regional emissions compared to the LST.
 - (2) The localized significance thresholds were updated to the latest values shown in the SCAQMD's Mass Rate Emission Tables (2006-2008) for a 5-acre project, in Source Receptor Area 38 and a distance to sensitive receptor of 25 meters; website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-1st-look-up-tables.pdf>.
- N/A = the SCAQMD has not defined a localized threshold for VOC emissions
 Source of CalEEMod emissions: See Appendix E of this FEIR

Operations

Table 3 below shows the comparison of the long-term operational emissions between emissions in the RRDEIR No. 1 (Table 4.2-9 [page 4.2-34] and Table 4.2-10 [page 4.2-35]) and the long-term operational emissions estimated using the CalEEMod model.

As noted from Table 3, the CalEEMod update to the project’s long term operational emissions are lower than the corresponding emissions shown in the RRDEIR No.1 tables with the exception of NOx emissions. The operational emission estimates for both the RRDEIR No. 1 and CalEEMod are less than the SCAQMD’s regional operational emission significance thresholds. Therefore, the emissions shown in the RRDEIR No. 1 represent a conservative estimate of the project’s long-term operational emissions and are sufficient in describing the project’s long-term operational impacts.

Table 3: Comparison of Long-Term Operational Project Emissions

| Analysis | Operational Criteria Pollutants (pounds/day) | | | | |
|--|---|------|-------|------------------|-------------------|
| | VOC | NOx | CO | PM ₁₀ | PM _{2.5} |
| RRDEIR No. 1 (Table 4.2-9 and Table 4.2-10) ^{(1), (2)} | 36.8 | 8.8 | 104.8 | 12.6 | 7.4 |
| CalEEMod ^{(1),(2)} | 9.5 | 10.8 | 32.2 | 4.5 | 1.9 |
| SCAQMD Regional Operational Threshold | 55 | 55 | 550 | 150 | 55 |
| Significant Impact? | No | No | No | No | No |
| Note: ⁽¹⁾ The higher of the summer and winter emissions is listed for each pollutant ⁽²⁾ The pollutant emissions include the operation of personal watercraft, Table 4.2-9 of the RRDEIR Source: CalEEMod (Appendix E of this FEIR) | | | | | |

CONCLUSION

The conservative analysis of the construction and operational emissions provided in RRDEIR No. 1 is sufficient in describing the air quality impacts of the project.

H.2 - Data

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Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

Moon Camp - CalEEMod Base Case 2018
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 4.24 | Acre | 4.24 | 184,694.40 | 0 |
| Single Family Housing | 50.00 | Dwelling Unit | 16.23 | 90,000.00 | 143 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 32 |
| Climate Zone | 10 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking includes approximately 4,400 feet of new roadways at a width of 42 feet.

Construction Phase - .

Woodstoves - All natural Gas fireplaces

Construction Off-road Equipment Mitigation -

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| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Parking | 11,082.00 | 6,534.00 |
| tblAreaCoating | Area_Parking | 11082 | 6534 |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0 | 12 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 11.00 |
| tblConstructionPhase | NumDays | 370.00 | 200.00 |
| tblConstructionPhase | NumDays | 35.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 10.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 365.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 6.00 |
| tblFireplaces | NumberGas | 42.50 | 52.00 |
| tblFireplaces | NumberNoFireplace | 5.00 | 0.00 |
| tblFireplaces | NumberWood | 2.50 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 36.00 | 23.00 |
| tblTripsAndVMT | WorkerTripNumber | 96.00 | 64.00 |
| tblTripsAndVMT | WorkerTripNumber | 19.00 | 13.00 |
| tblWoodstoves | NumberCatalytic | 2.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-1-2018 | 3-31-2018 | 1.3080 | 1.3080 |
| 2 | 4-1-2018 | 6-30-2018 | 0.9648 | 0.9648 |
| 3 | 7-1-2018 | 9-30-2018 | 0.9754 | 0.9754 |
| | | Highest | 1.3080 | 1.3080 |

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 | 0.4195 | 0.3209 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |
| Energy | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 241.0959 | 241.0959 | 8.1500e-003 | 2.8600e-003 | 242.1515 |
| Mobile | 0.1986 | 1.4652 | 2.5376 | 8.5300e-003 | 0.6147 | 8.9500e-003 | 0.6236 | 0.1648 | 8.4400e-003 | 0.1732 | 0.0000 | 788.3486 | 788.3486 | 0.0443 | 0.0000 | 789.4570 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.9014 | 0.0000 | 11.9014 | 0.7034 | 0.0000 | 29.4851 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.0335 | 20.7856 | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |
| Total | 0.6264 | 1.8566 | 3.2198 | 0.0110 | 0.6147 | 0.0430 | 0.6576 | 0.1648 | 0.0424 | 0.2072 | 12.9349 | 1,415.6966 | 1,428.6315 | 0.8707 | 0.0122 | 1,454.0418 |

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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 | 0.4195 | 0.3209 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |
| Energy | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 241.0959 | 241.0959 | 8.1500e-003 | 2.8600e-003 | 242.1515 |
| Mobile | 0.1986 | 1.4652 | 2.5376 | 8.5300e-003 | 0.6147 | 8.9500e-003 | 0.6236 | 0.1648 | 8.4400e-003 | 0.1732 | 0.0000 | 788.3486 | 788.3486 | 0.0443 | 0.0000 | 789.4570 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.9014 | 0.0000 | 11.9014 | 0.7034 | 0.0000 | 29.4851 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.0335 | 20.7856 | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |
| Total | 0.6264 | 1.8566 | 3.2198 | 0.0110 | 0.6147 | 0.0430 | 0.6576 | 0.1648 | 0.0424 | 0.2072 | 12.9349 | 1,415.6966 | 1,428.6315 | 0.8707 | 0.0122 | 1,454.0418 |

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

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Grading | Grading | 1/1/2018 | 2/9/2018 | 5 | 30 | |
| 2 | Building Construction | Building Construction | 2/24/2018 | 11/30/2018 | 5 | 200 | |
| 3 | Paving | Paving | 12/1/2018 | 12/15/2018 | 5 | 10 | |
| 4 | Architectural Coating | Architectural Coating | 12/16/2018 | 12/31/2018 | 5 | 11 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.24

Residential Indoor: 182,250; Residential Outdoor: 60,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,534 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 64.00 | 23.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

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 | | | | | 0.1301 | 0.0000 | 0.1301 | 0.0540 | 0.0000 | 0.0540 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0764 | 0.8928 | 0.5263 | 9.3000e-004 | | 0.0395 | 0.0395 | | 0.0364 | 0.0364 | 0.0000 | 84.9728 | 84.9728 | 0.0265 | 0.0000 | 85.6341 |
| Total | 0.0764 | 0.8928 | 0.5263 | 9.3000e-004 | 0.1301 | 0.0395 | 0.1696 | 0.0540 | 0.0364 | 0.0903 | 0.0000 | 84.9728 | 84.9728 | 0.0265 | 0.0000 | 85.6341 |

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3.2 Grading - 2018

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 | 1.7700e-003 | 1.4900e-003 | 0.0146 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 3.0127 | 3.0127 | 1.1000e-004 | 0.0000 | 3.0154 |
| Total | 1.7700e-003 | 1.4900e-003 | 0.0146 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 3.0127 | 3.0127 | 1.1000e-004 | 0.0000 | 3.0154 |

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 | | | | | 0.0586 | 0.0000 | 0.0586 | 0.0243 | 0.0000 | 0.0243 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0764 | 0.8928 | 0.5263 | 9.3000e-004 | | 0.0395 | 0.0395 | | 0.0364 | 0.0364 | 0.0000 | 84.9727 | 84.9727 | 0.0265 | 0.0000 | 85.6340 |
| Total | 0.0764 | 0.8928 | 0.5263 | 9.3000e-004 | 0.0586 | 0.0395 | 0.0981 | 0.0243 | 0.0364 | 0.0606 | 0.0000 | 84.9727 | 84.9727 | 0.0265 | 0.0000 | 85.6340 |

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3.2 Grading - 2018

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 | 1.7700e-003 | 1.4900e-003 | 0.0146 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 3.0127 | 3.0127 | 1.1000e-004 | 0.0000 | 3.0154 |
| Total | 1.7700e-003 | 1.4900e-003 | 0.0146 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 3.0127 | 3.0127 | 1.1000e-004 | 0.0000 | 3.0154 |

3.3 Building Construction - 2018

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 | 0.2680 | 2.3390 | 1.7580 | 2.6900e-003 | | 0.1500 | 0.1500 | | 0.1410 | 0.1410 | 0.0000 | 237.7672 | 237.7672 | 0.0583 | 0.0000 | 239.2236 |
| Total | 0.2680 | 2.3390 | 1.7580 | 2.6900e-003 | | 0.1500 | 0.1500 | | 0.1410 | 0.1410 | 0.0000 | 237.7672 | 237.7672 | 0.0583 | 0.0000 | 239.2236 |

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3.3 Building Construction - 2018

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.4400e-003 | 0.2864 | 0.0651 | 6.3000e-004 | 0.0145 | 1.9700e-003 | 0.0165 | 4.1900e-003 | 1.8800e-003 | 6.0700e-003 | 0.0000 | 59.7300 | 59.7300 | 4.3500e-003 | 0.0000 | 59.8388 |
| Worker | 0.0378 | 0.0319 | 0.3118 | 7.1000e-004 | 0.0702 | 5.0000e-004 | 0.0707 | 0.0186 | 4.6000e-004 | 0.0191 | 0.0000 | 64.2704 | 64.2704 | 2.3400e-003 | 0.0000 | 64.3288 |
| Total | 0.0472 | 0.3182 | 0.3768 | 1.3400e-003 | 0.0847 | 2.4700e-003 | 0.0871 | 0.0228 | 2.3400e-003 | 0.0252 | 0.0000 | 124.0004 | 124.0004 | 6.6900e-003 | 0.0000 | 124.1676 |

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 | 0.2680 | 2.3390 | 1.7580 | 2.6900e-003 | | 0.1500 | 0.1500 | | 0.1410 | 0.1410 | 0.0000 | 237.7670 | 237.7670 | 0.0583 | 0.0000 | 239.2233 |
| Total | 0.2680 | 2.3390 | 1.7580 | 2.6900e-003 | | 0.1500 | 0.1500 | | 0.1410 | 0.1410 | 0.0000 | 237.7670 | 237.7670 | 0.0583 | 0.0000 | 239.2233 |

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3.3 Building Construction - 2018

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.4400e-003 | 0.2864 | 0.0651 | 6.3000e-004 | 0.0145 | 1.9700e-003 | 0.0165 | 4.1900e-003 | 1.8800e-003 | 6.0700e-003 | 0.0000 | 59.7300 | 59.7300 | 4.3500e-003 | 0.0000 | 59.8388 |
| Worker | 0.0378 | 0.0319 | 0.3118 | 7.1000e-004 | 0.0702 | 5.0000e-004 | 0.0707 | 0.0186 | 4.6000e-004 | 0.0191 | 0.0000 | 64.2704 | 64.2704 | 2.3400e-003 | 0.0000 | 64.3288 |
| Total | 0.0472 | 0.3182 | 0.3768 | 1.3400e-003 | 0.0847 | 2.4700e-003 | 0.0871 | 0.0228 | 2.3400e-003 | 0.0252 | 0.0000 | 124.0004 | 124.0004 | 6.6900e-003 | 0.0000 | 124.1676 |

3.4 Paving - 2018

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 | 8.2200e-003 | 0.0876 | 0.0740 | 1.1000e-004 | | 4.7800e-003 | 4.7800e-003 | | 4.4000e-003 | 4.4000e-003 | 0.0000 | 10.4058 | 10.4058 | 3.2400e-003 | 0.0000 | 10.4868 |
| Paving | 5.5500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0138 | 0.0876 | 0.0740 | 1.1000e-004 | | 4.7800e-003 | 4.7800e-003 | | 4.4000e-003 | 4.4000e-003 | 0.0000 | 10.4058 | 10.4058 | 3.2400e-003 | 0.0000 | 10.4868 |

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3.4 Paving - 2018

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 | 4.4000e-004 | 3.7000e-004 | 3.6500e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7532 | 0.7532 | 3.0000e-005 | 0.0000 | 0.7539 |
| Total | 4.4000e-004 | 3.7000e-004 | 3.6500e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7532 | 0.7532 | 3.0000e-005 | 0.0000 | 0.7539 |

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 | 8.2200e-003 | 0.0876 | 0.0740 | 1.1000e-004 | | 4.7800e-003 | 4.7800e-003 | | 4.4000e-003 | 4.4000e-003 | 0.0000 | 10.4058 | 10.4058 | 3.2400e-003 | 0.0000 | 10.4868 |
| Paving | 5.5500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0138 | 0.0876 | 0.0740 | 1.1000e-004 | | 4.7800e-003 | 4.7800e-003 | | 4.4000e-003 | 4.4000e-003 | 0.0000 | 10.4058 | 10.4058 | 3.2400e-003 | 0.0000 | 10.4868 |

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3.4 Paving - 2018

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 | 4.4000e-004 | 3.7000e-004 | 3.6500e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7532 | 0.7532 | 3.0000e-005 | 0.0000 | 0.7539 |
| Total | 4.4000e-004 | 3.7000e-004 | 3.6500e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7532 | 0.7532 | 3.0000e-005 | 0.0000 | 0.7539 |

3.5 Architectural Coating - 2018

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 | 0.2967 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.6400e-003 | 0.0110 | 0.0102 | 2.0000e-005 | | 8.3000e-004 | 8.3000e-004 | | 8.3000e-004 | 8.3000e-004 | 0.0000 | 1.4043 | 1.4043 | 1.3000e-004 | 0.0000 | 1.4076 |
| Total | 0.2984 | 0.0110 | 0.0102 | 2.0000e-005 | | 8.3000e-004 | 8.3000e-004 | | 8.3000e-004 | 8.3000e-004 | 0.0000 | 1.4043 | 1.4043 | 1.3000e-004 | 0.0000 | 1.4076 |

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3.5 Architectural Coating - 2018

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 | 4.2000e-004 | 3.6000e-004 | 3.4800e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7180 | 0.7180 | 3.0000e-005 | 0.0000 | 0.7187 |
| Total | 4.2000e-004 | 3.6000e-004 | 3.4800e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7180 | 0.7180 | 3.0000e-005 | 0.0000 | 0.7187 |

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 | 0.2967 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.6400e-003 | 0.0110 | 0.0102 | 2.0000e-005 | | 8.3000e-004 | 8.3000e-004 | | 8.3000e-004 | 8.3000e-004 | 0.0000 | 1.4043 | 1.4043 | 1.3000e-004 | 0.0000 | 1.4076 |
| Total | 0.2984 | 0.0110 | 0.0102 | 2.0000e-005 | | 8.3000e-004 | 8.3000e-004 | | 8.3000e-004 | 8.3000e-004 | 0.0000 | 1.4043 | 1.4043 | 1.3000e-004 | 0.0000 | 1.4076 |

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3.5 Architectural Coating - 2018

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 | 4.2000e-004 | 3.6000e-004 | 3.4800e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7180 | 0.7180 | 3.0000e-005 | 0.0000 | 0.7187 |
| Total | 4.2000e-004 | 3.6000e-004 | 3.4800e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7180 | 0.7180 | 3.0000e-005 | 0.0000 | 0.7187 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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 | 0.1986 | 1.4652 | 2.5376 | 8.5300e-003 | 0.6147 | 8.9500e-003 | 0.6236 | 0.1648 | 8.4400e-003 | 0.1732 | 0.0000 | 788.3486 | 788.3486 | 0.0443 | 0.0000 | 789.4570 |
| Unmitigated | 0.1986 | 1.4652 | 2.5376 | 8.5300e-003 | 0.6147 | 8.9500e-003 | 0.6236 | 0.1648 | 8.4400e-003 | 0.1732 | 0.0000 | 788.3486 | 788.3486 | 0.0443 | 0.0000 | 789.4570 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |
| Total | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |

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 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |
| Single Family Housing | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 159.4595 | 159.4595 | 6.5800e-003 | 1.3600e-003 | 160.0300 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 159.4595 | 159.4595 | 6.5800e-003 | 1.3600e-003 | 160.0300 |
| NaturalGas Mitigated | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |
| NaturalGas Unmitigated | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Single Family Housing | 1.52981e+006 | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |
| Total | | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |

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 | | | | | |
| 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 |
| Single Family Housing | 1.52981e+006 | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |
| Total | | 8.2500e-003 | 0.0705 | 0.0300 | 4.5000e-004 | | 5.7000e-003 | 5.7000e-003 | | 5.7000e-003 | 5.7000e-003 | 0.0000 | 81.6364 | 81.6364 | 1.5600e-003 | 1.5000e-003 | 82.1215 |

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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 | | | |
| Parking Lot | 64643 | 20.5967 | 8.5000e-004 | 1.8000e-004 | 20.6703 |
| Single Family Housing | 435824 | 138.8629 | 5.7300e-003 | 1.1900e-003 | 139.3597 |
| Total | | 159.4595 | 6.5800e-003 | 1.3700e-003 | 160.0300 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 64643 | 20.5967 | 8.5000e-004 | 1.8000e-004 | 20.6703 |
| Single Family Housing | 435824 | 138.8629 | 5.7300e-003 | 1.1900e-003 | 139.3597 |
| Total | | 159.4595 | 6.5800e-003 | 1.3700e-003 | 160.0300 |

6.0 Area Detail

6.1 Mitigation Measures Area

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4195 | 0.3209 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |
| Unmitigated | 0.4195 | 0.3209 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |

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 | 0.0297 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3372 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0368 | 0.3148 | 0.1340 | 2.0100e-003 | | 0.0255 | 0.0255 | | 0.0255 | 0.0255 | 0.0000 | 364.6242 | 364.6242 | 6.9900e-003 | 6.6800e-003 | 366.7910 |
| Landscaping | 0.0159 | 6.0000e-003 | 0.5182 | 3.0000e-005 | | 2.8400e-003 | 2.8400e-003 | | 2.8400e-003 | 2.8400e-003 | 0.0000 | 0.8424 | 0.8424 | 8.3000e-004 | 0.0000 | 0.8631 |
| Total | 0.4195 | 0.3208 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0297 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3372 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0368 | 0.3148 | 0.1340 | 2.0100e-003 | | 0.0255 | 0.0255 | | 0.0255 | 0.0255 | 0.0000 | 364.6242 | 364.6242 | 6.9900e-003 | 6.6800e-003 | 366.7910 |
| Landscaping | 0.0159 | 6.0000e-003 | 0.5182 | 3.0000e-005 | | 2.8400e-003 | 2.8400e-003 | | 2.8400e-003 | 2.8400e-003 | 0.0000 | 0.8424 | 0.8424 | 8.3000e-004 | 0.0000 | 0.8631 |
| Total | 0.4195 | 0.3208 | 0.6522 | 2.0400e-003 | | 0.0283 | 0.0283 | | 0.0283 | 0.0283 | 0.0000 | 365.4666 | 365.4666 | 7.8200e-003 | 6.6800e-003 | 367.6541 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |
| Unmitigated | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3.2577 / 2.05377 | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |
| Total | | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 3.2577 / 2.05377 | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |
| Total | | 21.8191 | 0.1070 | 2.6800e-003 | 25.2942 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 11.9014 | 0.7034 | 0.0000 | 29.4851 |
| Unmitigated | 11.9014 | 0.7034 | 0.0000 | 29.4851 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 58.63 | 11.9014 | 0.7034 | 0.0000 | 29.4851 |
| Total | | 11.9014 | 0.7034 | 0.0000 | 29.4851 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 58.63 | 11.9014 | 0.7034 | 0.0000 | 29.4851 |
| Total | | 11.9014 | 0.7034 | 0.0000 | 29.4851 |

9.0 Operational Offroad

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

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Annual

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

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

Moon Camp - CalEEMod Base Case 2018
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 4.24 | Acre | 4.24 | 184,694.40 | 0 |
| Single Family Housing | 50.00 | Dwelling Unit | 16.23 | 90,000.00 | 143 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 32 |
| Climate Zone | 10 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking includes approximately 4,400 feet of new roadways at a width of 42 feet.

Construction Phase - .

Woodstoves - All natural Gas fireplaces

Construction Off-road Equipment Mitigation -

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Parking | 11,082.00 | 6,534.00 |
| tblAreaCoating | Area_Parking | 11082 | 6534 |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0 | 12 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 11.00 |
| tblConstructionPhase | NumDays | 370.00 | 200.00 |
| tblConstructionPhase | NumDays | 35.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 10.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 365.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 6.00 |
| tblFireplaces | NumberGas | 42.50 | 52.00 |
| tblFireplaces | NumberNoFireplace | 5.00 | 0.00 |
| tblFireplaces | NumberWood | 2.50 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 36.00 | 23.00 |
| tblTripsAndVMT | WorkerTripNumber | 96.00 | 64.00 |
| tblTripsAndVMT | WorkerTripNumber | 19.00 | 13.00 |
| tblWoodstoves | NumberCatalytic | 2.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Energy | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Mobile | 1.3339 | 8.1855 | 16.1224 | 0.0524 | 3.6100 | 0.0514 | 3.6615 | 0.9662 | 0.0485 | 1.0147 | | 5,327.5398 | 5,327.5398 | 0.2846 | | 5,334.6535 |
| Total | 3.7180 | 10.3449 | 21.1668 | 0.0661 | 3.6100 | 0.2449 | 3.8549 | 0.9662 | 0.2420 | 1.2081 | 0.0000 | 8,030.4099 | 8,030.4099 | 0.3435 | 0.0494 | 8,053.7236 |

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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Energy | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Mobile | 1.3339 | 8.1855 | 16.1224 | 0.0524 | 3.6100 | 0.0514 | 3.6615 | 0.9662 | 0.0485 | 1.0147 | | 5,327.5398 | 5,327.5398 | 0.2846 | | 5,334.6535 |
| Total | 3.7180 | 10.3449 | 21.1668 | 0.0661 | 3.6100 | 0.2449 | 3.8549 | 0.9662 | 0.2420 | 1.2081 | 0.0000 | 8,030.4099 | 8,030.4099 | 0.3435 | 0.0494 | 8,053.7236 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Grading | Grading | 1/1/2018 | 2/9/2018 | 5 | 30 | |
| 2 | Building Construction | Building Construction | 2/24/2018 | 11/30/2018 | 5 | 200 | |
| 3 | Paving | Paving | 12/1/2018 | 12/15/2018 | 5 | 10 | |
| 4 | Architectural Coating | Architectural Coating | 12/16/2018 | 12/31/2018 | 5 | 11 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.24

Residential Indoor: 182,250; Residential Outdoor: 60,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,534 (Architectural Coating – sqft)

OffRoad Equipment

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 64.00 | 23.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

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 | | | | | 8.6733 | 0.0000 | 8.6733 | 3.5965 | 0.0000 | 3.5965 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.0901 | 59.5218 | 35.0894 | 0.0620 | | 2.6337 | 2.6337 | | 2.4230 | 2.4230 | | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |
| Total | 5.0901 | 59.5218 | 35.0894 | 0.0620 | 8.6733 | 2.6337 | 11.3071 | 3.5965 | 2.4230 | 6.0195 | | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.2 Grading - 2018

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 |
| 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 |
| Worker | 0.1305 | 0.0897 | 1.1246 | 2.4300e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 241.4857 | 241.4857 | 8.9000e-003 | | 241.7082 |
| Total | 0.1305 | 0.0897 | 1.1246 | 2.4300e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 241.4857 | 241.4857 | 8.9000e-003 | | 241.7082 |

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 | | | | | 3.9030 | 0.0000 | 3.9030 | 1.6184 | 0.0000 | 1.6184 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.0901 | 59.5218 | 35.0894 | 0.0620 | | 2.6337 | 2.6337 | | 2.4230 | 2.4230 | 0.0000 | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |
| Total | 5.0901 | 59.5218 | 35.0894 | 0.0620 | 3.9030 | 2.6337 | 6.5367 | 1.6184 | 2.4230 | 4.0415 | 0.0000 | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.2 Grading - 2018

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 |
| 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 |
| Worker | 0.1305 | 0.0897 | 1.1246 | 2.4300e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 241.4857 | 241.4857 | 8.9000e-003 | | 241.7082 |
| Total | 0.1305 | 0.0897 | 1.1246 | 2.4300e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 241.4857 | 241.4857 | 8.9000e-003 | | 241.7082 |

3.3 Building Construction - 2018

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 | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2018

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 |
| Vendor | 0.0927 | 2.8191 | 0.6052 | 6.3500e-003 | 0.1473 | 0.0196 | 0.1669 | 0.0424 | 0.0187 | 0.0612 | | 669.1297 | 669.1297 | 0.0459 | | 670.2764 |
| Worker | 0.4175 | 0.2871 | 3.5987 | 7.7700e-003 | 0.7154 | 4.9700e-003 | 0.7203 | 0.1897 | 4.5800e-003 | 0.1943 | | 772.7543 | 772.7543 | 0.0285 | | 773.4662 |
| Total | 0.5102 | 3.1061 | 4.2039 | 0.0141 | 0.8627 | 0.0246 | 0.8872 | 0.2321 | 0.0233 | 0.2555 | | 1,441.8840 | 1,441.8840 | 0.0743 | | 1,443.7426 |

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 | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2018

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 |
| Vendor | 0.0927 | 2.8191 | 0.6052 | 6.3500e-003 | 0.1473 | 0.0196 | 0.1669 | 0.0424 | 0.0187 | 0.0612 | | 669.1297 | 669.1297 | 0.0459 | | 670.2764 |
| Worker | 0.4175 | 0.2871 | 3.5987 | 7.7700e-003 | 0.7154 | 4.9700e-003 | 0.7203 | 0.1897 | 4.5800e-003 | 0.1943 | | 772.7543 | 772.7543 | 0.0285 | | 773.4662 |
| Total | 0.5102 | 3.1061 | 4.2039 | 0.0141 | 0.8627 | 0.0246 | 0.8872 | 0.2321 | 0.0233 | 0.2555 | | 1,441.8840 | 1,441.8840 | 0.0743 | | 1,443.7426 |

3.4 Paving - 2018

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 | 1.6437 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |
| Paving | 1.1109 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.7546 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.4 Paving - 2018

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 |
| 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 |
| Worker | 0.0979 | 0.0673 | 0.8434 | 1.8200e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 181.1143 | 181.1143 | 6.6700e-003 | | 181.2811 |
| Total | 0.0979 | 0.0673 | 0.8434 | 1.8200e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 181.1143 | 181.1143 | 6.6700e-003 | | 181.2811 |

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 | 1.6437 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | 0.0000 | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |
| Paving | 1.1109 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.7546 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | 0.0000 | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.4 Paving - 2018

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 |
| 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 |
| Worker | 0.0979 | 0.0673 | 0.8434 | 1.8200e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 181.1143 | 181.1143 | 6.6700e-003 | | 181.2811 |
| Total | 0.0979 | 0.0673 | 0.8434 | 1.8200e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 181.1143 | 181.1143 | 6.6700e-003 | | 181.2811 |

3.5 Architectural Coating - 2018

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 | 53.9489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2986 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |
| Total | 54.2475 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.5 Architectural Coating - 2018

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 |
| 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 |
| Worker | 0.0848 | 0.0583 | 0.7310 | 1.5800e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 156.9657 | 156.9657 | 5.7800e-003 | | 157.1103 |
| Total | 0.0848 | 0.0583 | 0.7310 | 1.5800e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 156.9657 | 156.9657 | 5.7800e-003 | | 157.1103 |

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 | 53.9489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2986 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | 0.0000 | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |
| Total | 54.2475 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | 0.0000 | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

3.5 Architectural Coating - 2018

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 |
| 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 |
| Worker | 0.0848 | 0.0583 | 0.7310 | 1.5800e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 156.9657 | 156.9657 | 5.7800e-003 | | 157.1103 |
| Total | 0.0848 | 0.0583 | 0.7310 | 1.5800e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 156.9657 | 156.9657 | 5.7800e-003 | | 157.1103 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.3339 | 8.1855 | 16.1224 | 0.0524 | 3.6100 | 0.0514 | 3.6615 | 0.9662 | 0.0485 | 1.0147 | | 5,327.5398 | 5,327.5398 | 0.2846 | | 5,334.6535 |
| Unmitigated | 1.3339 | 8.1855 | 16.1224 | 0.0524 | 3.6100 | 0.0514 | 3.6615 | 0.9662 | 0.0485 | 1.0147 | | 5,327.5398 | 5,327.5398 | 0.2846 | | 5,334.6535 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |
| Total | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |

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 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |
| Single Family Housing | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| NaturalGas Unmitigated | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

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 | | | | | |
| 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 |
| Single Family Housing | 4191.25 | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Total | | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

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 | | | | | |
| 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 |
| Single Family Housing | 4.19125 | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Total | | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

6.0 Area Detail

6.1 Mitigation Measures Area

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Unmitigated | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

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 | 0.1626 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.8474 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.2019 | 1.7252 | 0.7341 | 0.0110 | | 0.1395 | 0.1395 | | 0.1395 | 0.1395 | 0.0000 | 2,202.3529 | 2,202.3529 | 0.0422 | 0.0404 | 2,215.4404 |
| Landscaping | 0.1269 | 0.0480 | 4.1459 | 2.2000e-004 | | 0.0227 | 0.0227 | | 0.0227 | 0.0227 | | 7.4285 | 7.4285 | 7.2900e-003 | | 7.6109 |
| Total | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

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 | 0.1626 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.8474 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.2019 | 1.7252 | 0.7341 | 0.0110 | | 0.1395 | 0.1395 | | 0.1395 | 0.1395 | 0.0000 | 2,202.3529 | 2,202.3529 | 0.0422 | 0.0404 | 2,215.4404 |
| Landscaping | 0.1269 | 0.0480 | 4.1459 | 2.2000e-004 | | 0.0227 | 0.0227 | | 0.0227 | 0.0227 | | 7.4285 | 7.4285 | 7.2900e-003 | | 7.6109 |
| Total | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Summer

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

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

Moon Camp - CalEEMod Base Case 2018
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Parking Lot | 4.24 | Acre | 4.24 | 184,694.40 | 0 |
| Single Family Housing | 50.00 | Dwelling Unit | 16.23 | 90,000.00 | 143 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 32 |
| Climate Zone | 10 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking includes approximately 4,400 feet of new roadways at a width of 42 feet.

Construction Phase - .

Woodstoves - All natural Gas fireplaces

Construction Off-road Equipment Mitigation -

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Parking | 11,082.00 | 6,534.00 |
| tblAreaCoating | Area_Parking | 11082 | 6534 |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent | 0 | 12 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 11.00 |
| tblConstructionPhase | NumDays | 370.00 | 200.00 |
| tblConstructionPhase | NumDays | 35.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 10.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 365.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 6.00 |
| tblFireplaces | NumberGas | 42.50 | 52.00 |
| tblFireplaces | NumberNoFireplace | 5.00 | 0.00 |
| tblFireplaces | NumberWood | 2.50 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 36.00 | 23.00 |
| tblTripsAndVMT | WorkerTripNumber | 96.00 | 64.00 |
| tblTripsAndVMT | WorkerTripNumber | 19.00 | 13.00 |
| tblWoodstoves | NumberCatalytic | 2.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Energy | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Mobile | 1.1707 | 8.2480 | 14.1386 | 0.0482 | 3.6100 | 0.0519 | 3.6620 | 0.9662 | 0.0490 | 1.0152 | | 4,909.5719 | 4,909.5719 | 0.2857 | | 4,916.7141 |
| Total | 3.5548 | 10.4075 | 19.1830 | 0.0619 | 3.6100 | 0.2454 | 3.8554 | 0.9662 | 0.2424 | 1.2086 | 0.0000 | 7,612.4420 | 7,612.4420 | 0.3447 | 0.0494 | 7,635.7842 |

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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Energy | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Mobile | 1.1707 | 8.2480 | 14.1386 | 0.0482 | 3.6100 | 0.0519 | 3.6620 | 0.9662 | 0.0490 | 1.0152 | | 4,909.5719 | 4,909.5719 | 0.2857 | | 4,916.7141 |
| Total | 3.5548 | 10.4075 | 19.1830 | 0.0619 | 3.6100 | 0.2454 | 3.8554 | 0.9662 | 0.2424 | 1.2086 | 0.0000 | 7,612.4420 | 7,612.4420 | 0.3447 | 0.0494 | 7,635.7842 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Grading | Grading | 1/1/2018 | 2/9/2018 | 5 | 30 | |
| 2 | Building Construction | Building Construction | 2/24/2018 | 11/30/2018 | 5 | 200 | |
| 3 | Paving | Paving | 12/1/2018 | 12/15/2018 | 5 | 10 | |
| 4 | Architectural Coating | Architectural Coating | 12/16/2018 | 12/31/2018 | 5 | 11 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.24

Residential Indoor: 182,250; Residential Outdoor: 60,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,534 (Architectural Coating – sqft)

OffRoad Equipment

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 64.00 | 23.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

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 | | | | | 8.6733 | 0.0000 | 8.6733 | 3.5965 | 0.0000 | 3.5965 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.0901 | 59.5218 | 35.0894 | 0.0620 | | 2.6337 | 2.6337 | | 2.4230 | 2.4230 | | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |
| Total | 5.0901 | 59.5218 | 35.0894 | 0.0620 | 8.6733 | 2.6337 | 11.3071 | 3.5965 | 2.4230 | 6.0195 | | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.2 Grading - 2018

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 |
| 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 |
| Worker | 0.1301 | 0.0945 | 0.9279 | 2.1800e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 216.6460 | 216.6460 | 7.8300e-003 | | 216.8416 |
| Total | 0.1301 | 0.0945 | 0.9279 | 2.1800e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 216.6460 | 216.6460 | 7.8300e-003 | | 216.8416 |

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 | | | | | 3.9030 | 0.0000 | 3.9030 | 1.6184 | 0.0000 | 1.6184 | | | 0.0000 | | | 0.0000 |
| Off-Road | 5.0901 | 59.5218 | 35.0894 | 0.0620 | | 2.6337 | 2.6337 | | 2.4230 | 2.4230 | 0.0000 | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |
| Total | 5.0901 | 59.5218 | 35.0894 | 0.0620 | 3.9030 | 2.6337 | 6.5367 | 1.6184 | 2.4230 | 4.0415 | 0.0000 | 6,244.4284 | 6,244.4284 | 1.9440 | | 6,293.0278 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.2 Grading - 2018

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 |
| 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 |
| Worker | 0.1301 | 0.0945 | 0.9279 | 2.1800e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 216.6460 | 216.6460 | 7.8300e-003 | | 216.8416 |
| Total | 0.1301 | 0.0945 | 0.9279 | 2.1800e-003 | 0.2236 | 1.5500e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 216.6460 | 216.6460 | 7.8300e-003 | | 216.8416 |

3.3 Building Construction - 2018

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 | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2018

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 |
| Vendor | 0.0970 | 2.8070 | 0.6889 | 6.1100e-003 | 0.1473 | 0.0198 | 0.1671 | 0.0424 | 0.0190 | 0.0614 | | 643.6068 | 643.6068 | 0.0505 | | 644.8684 |
| Worker | 0.4163 | 0.3025 | 2.9693 | 6.9700e-003 | 0.7154 | 4.9700e-003 | 0.7203 | 0.1897 | 4.5800e-003 | 0.1943 | | 693.2671 | 693.2671 | 0.0250 | | 693.8932 |
| Total | 0.5133 | 3.1095 | 3.6582 | 0.0131 | 0.8627 | 0.0248 | 0.8875 | 0.2321 | 0.0236 | 0.2557 | | 1,336.8739 | 1,336.8739 | 0.0755 | | 1,338.7616 |

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 | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2018

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 |
| Vendor | 0.0970 | 2.8070 | 0.6889 | 6.1100e-003 | 0.1473 | 0.0198 | 0.1671 | 0.0424 | 0.0190 | 0.0614 | | 643.6068 | 643.6068 | 0.0505 | | 644.8684 |
| Worker | 0.4163 | 0.3025 | 2.9693 | 6.9700e-003 | 0.7154 | 4.9700e-003 | 0.7203 | 0.1897 | 4.5800e-003 | 0.1943 | | 693.2671 | 693.2671 | 0.0250 | | 693.8932 |
| Total | 0.5133 | 3.1095 | 3.6582 | 0.0131 | 0.8627 | 0.0248 | 0.8875 | 0.2321 | 0.0236 | 0.2557 | | 1,336.8739 | 1,336.8739 | 0.0755 | | 1,338.7616 |

3.4 Paving - 2018

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 | 1.6437 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |
| Paving | 1.1109 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.7546 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.4 Paving - 2018

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 |
| 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 |
| Worker | 0.0976 | 0.0709 | 0.6959 | 1.6300e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 162.4845 | 162.4845 | 5.8700e-003 | | 162.6312 |
| Total | 0.0976 | 0.0709 | 0.6959 | 1.6300e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 162.4845 | 162.4845 | 5.8700e-003 | | 162.6312 |

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 | 1.6437 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | 0.0000 | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |
| Paving | 1.1109 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.7546 | 17.5209 | 14.7964 | 0.0228 | | 0.9561 | 0.9561 | | 0.8797 | 0.8797 | 0.0000 | 2,294.0887 | 2,294.0887 | 0.7142 | | 2,311.9432 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.4 Paving - 2018

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 |
| 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 |
| Worker | 0.0976 | 0.0709 | 0.6959 | 1.6300e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 162.4845 | 162.4845 | 5.8700e-003 | | 162.6312 |
| Total | 0.0976 | 0.0709 | 0.6959 | 1.6300e-003 | 0.1677 | 1.1600e-003 | 0.1688 | 0.0445 | 1.0700e-003 | 0.0455 | | 162.4845 | 162.4845 | 5.8700e-003 | | 162.6312 |

3.5 Architectural Coating - 2018

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 | 53.9489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2986 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |
| Total | 54.2475 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

3.5 Architectural Coating - 2018

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 |
| 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 |
| Worker | 0.0846 | 0.0614 | 0.6031 | 1.4200e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 140.8199 | 140.8199 | 5.0900e-003 | | 140.9471 |
| Total | 0.0846 | 0.0614 | 0.6031 | 1.4200e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 140.8199 | 140.8199 | 5.0900e-003 | | 140.9471 |

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 | 53.9489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2986 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | 0.0000 | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |
| Total | 54.2475 | 2.0058 | 1.8542 | 2.9700e-003 | | 0.1506 | 0.1506 | | 0.1506 | 0.1506 | 0.0000 | 281.4485 | 281.4485 | 0.0267 | | 282.1171 |

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3.5 Architectural Coating - 2018

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 |
| 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 |
| Worker | 0.0846 | 0.0614 | 0.6031 | 1.4200e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 140.8199 | 140.8199 | 5.0900e-003 | | 140.9471 |
| Total | 0.0846 | 0.0614 | 0.6031 | 1.4200e-003 | 0.1453 | 1.0100e-003 | 0.1463 | 0.0385 | 9.3000e-004 | 0.0395 | | 140.8199 | 140.8199 | 5.0900e-003 | | 140.9471 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.1707 | 8.2480 | 14.1386 | 0.0482 | 3.6100 | 0.0519 | 3.6620 | 0.9662 | 0.0490 | 1.0152 | | 4,909.5719 | 4,909.5719 | 0.2857 | | 4,916.7141 |
| Unmitigated | 1.1707 | 8.2480 | 14.1386 | 0.0482 | 3.6100 | 0.0519 | 3.6620 | 0.9662 | 0.0490 | 1.0152 | | 4,909.5719 | 4,909.5719 | 0.2857 | | 4,916.7141 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |
| Total | 476.00 | 495.50 | 431.00 | 1,614,116 | 1,614,116 |

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 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |
| Single Family Housing | 0.541740 | 0.038987 | 0.178620 | 0.126833 | 0.019742 | 0.005671 | 0.017070 | 0.060066 | 0.001326 | 0.001715 | 0.006244 | 0.000823 | 0.001163 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| NaturalGas Unmitigated | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

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 | | | | | |
| 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 |
| Single Family Housing | 4191.25 | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Total | | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

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 | | | | | |
| 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 |
| Single Family Housing | 4.19125 | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |
| Total | | 0.0452 | 0.3863 | 0.1644 | 2.4700e-003 | | 0.0312 | 0.0312 | | 0.0312 | 0.0312 | | 493.0886 | 493.0886 | 9.4500e-003 | 9.0400e-003 | 496.0188 |

6.0 Area Detail

6.1 Mitigation Measures Area

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive 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 | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |
| Unmitigated | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

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 | 0.1626 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.8474 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.2019 | 1.7252 | 0.7341 | 0.0110 | | 0.1395 | 0.1395 | | 0.1395 | 0.1395 | 0.0000 | 2,202.3529 | 2,202.3529 | 0.0422 | 0.0404 | 2,215.4404 |
| Landscaping | 0.1269 | 0.0480 | 4.1459 | 2.2000e-004 | | 0.0227 | 0.0227 | | 0.0227 | 0.0227 | | 7.4285 | 7.4285 | 7.2900e-003 | | 7.6109 |
| Total | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

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 | 0.1626 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.8474 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.2019 | 1.7252 | 0.7341 | 0.0110 | | 0.1395 | 0.1395 | | 0.1395 | 0.1395 | 0.0000 | 2,202.3529 | 2,202.3529 | 0.0422 | 0.0404 | 2,215.4404 |
| Landscaping | 0.1269 | 0.0480 | 4.1459 | 2.2000e-004 | | 0.0227 | 0.0227 | | 0.0227 | 0.0227 | | 7.4285 | 7.4285 | 7.2900e-003 | | 7.6109 |
| Total | 2.3388 | 1.7732 | 4.8801 | 0.0112 | | 0.1622 | 0.1622 | | 0.1622 | 0.1622 | 0.0000 | 2,209.7815 | 2,209.7815 | 0.0495 | 0.0404 | 2,223.0513 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Moon Camp - CalEEMod Base Case 2018 - San Bernardino-South Coast County, Winter

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
