



DOUGLASKIM+ASSOCIATES,LLC

## EXISTING CONDITIONS

1201 South Grand Avenue Existing - Los Angeles-South Coast County, Summer  
**1201 South Grand Avenue Existing**  
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.58	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MMhr)	1227.89	CH4 Intensity (lb/MMhr)	0.029	N2O Intensity (lb/MMhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Developer Information

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.18	0.58
tblVehicleTrips	WD_TR	11.03	7.13

2.0 Emissions Summary

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															
Area	0.1788	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003
Energy	2.4600e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024
Mobile	0.1167	0.5432	1.5680	5.0800e-003	0.3905	5.0600e-003	0.3955	0.1045	4.7500e-003	0.1093		515.6866	515.6866	0.0281		516.3891
Total	0.2980	0.5656	1.5876	5.2100e-003	0.3905	6.7600e-003	0.3972	0.1045	6.4500e-003	0.1110		542.5312	542.5312	0.0286	4.9000e-004	543.3933

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															
Area	0.1788	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003
Energy	2.4600e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024
Mobile	0.1167	0.5432	1.5680	5.0800e-003	0.3905	5.0600e-003	0.3955	0.1045	4.7500e-003	0.1093		515.6866	515.6866	0.0281		516.3891
Total	0.2980	0.5656	1.5876	5.2100e-003	0.3905	6.7600e-003	0.3972	0.1045	6.4500e-003	0.1110		542.5312	542.5312	0.0286	4.9000e-004	543.3933

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1167	0.5432	1.5680	5.0800e-003	0.3905	5.0600e-003	0.3955	0.1045	4.7500e-003	0.1093		515.6866	515.6866	0.0281		516.3891
Unmitigated	0.1167	0.5432	1.5680	5.0800e-003	0.3905	5.0600e-003	0.3955	0.1045	4.7500e-003	0.1093		515.6866	515.6866	0.0281		516.3891

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated		Mitigated	
Land Use	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
General Office Building	57.00	19.68	8.40	144,082		144,082	
Total	57.00	19.68	8.40	144,082		144,082	

4.3 Trip Type Information

	Miles	Trip %					Trip Purpose %		
Land Use	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCV	SBUS	MH
General Office Building	0.547726	0.045433	0.201486	0.122766	0.016615	0.006090	0.019325	0.029175	0.002433	0.002355	0.005005	0.000673	0.000907

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	2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	
Mitigated																
NaturalGas	2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	
Unmitigated																

### 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					
General Office Building	228.164	2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	
Total		2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	

#### 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					
General Office Building	0.228164	2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	
Total		2.4600e-003	0.0224	0.0188	1.3000e-004	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	1.7000e-003	26.8429	26.8429	5.1000e-004	4.9000e-004	27.0024	

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1788	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003
Unmitigated	0.1788	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003

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	0.0203					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1584					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003
Total	0.1788	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003

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	0.0203				0.0000	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1584				0.0000	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003
Total	0.1788	1.0000e-005	8.2000e-004	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		1.7500e-003	1.7500e-003	0.0000		1.8700e-003

## 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
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## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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1201 South Grand Avenue Existing - Los Angeles-South Coast County, Annual

**1201 South Grand Avenue Existing**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.00	1000sqft	0.58	8,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1227.89	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 - Developer information

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April  
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| Table Name      | Column Name | Default Value | New Value |
|-----------------|-------------|---------------|-----------|
| tblLandUse      | LotAcreage  | 0.18          | 0.58      |
| tblVehicleTrips | WD_TR       | 11.03         | 7.13      |

**2.0 Emissions Summary**



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     | 0.0326      | 0.0000      | 1.0000e-004 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000      | 0.0000      | 2.1000e-004 |
| Energy   | 4.5000e-004 | 4.0800e-003 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 62.3236     | 62.3236     | 1.4500e-003 | 3.6000e-004 | 62.4685     |
| Mobile   | 0.0158      | 0.0812      | 0.2162      | 7.0000e-004 | 0.0547        | 7.2000e-004  | 0.0554      | 0.0147         | 6.8000e-004   | 0.0153      | 0.0000   | 64.4490     | 64.4490     | 3.6100e-003 | 0.0000      | 64.5393     |
| Waste    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 1.5103   | 0.0000      | 1.5103      | 0.0893      | 0.0000      | 3.7416      |
| Water    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.4511   | 15.7042     | 16.1553     | 0.0467      | 1.1700e-003 | 17.6717     |
| Total    | 0.0489      | 0.0853      | 0.2197      | 7.2000e-004 | 0.0547        | 1.0300e-003  | 0.0557      | 0.0147         | 9.9000e-004   | 0.0157      | 1.9613   | 142.4769    | 144.4383    | 0.1410      | 1.5300e-003 | 148.4213    |

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     | 0.0326      | 0.0000      | 1.0000e-004 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000      | 0.0000      | 2.1000e-004 |
| Energy   | 4.5000e-004 | 4.0800e-003 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 62.3236     | 62.3236     | 1.4500e-003 | 3.6000e-004 | 62.4685     |
| Mobile   | 0.0158      | 0.0812      | 0.2162      | 7.0000e-004 | 0.0547        | 7.2000e-004  | 0.0554      | 0.0147         | 6.8000e-004   | 0.0153      | 0.0000   | 64.4490     | 64.4490     | 3.6100e-003 | 0.0000      | 64.5393     |
| Waste    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 1.5103   | 0.0000      | 1.5103      | 0.0893      | 0.0000      | 3.7416      |
| Water    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.4511   | 15.7042     | 16.1553     | 0.0467      | 1.1700e-003 | 17.6717     |

|       |        |        |        |             |        |             |        |        |             |        |        |          |          |        |             |          |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--------|----------|----------|--------|-------------|----------|
| Total | 0.0489 | 0.0853 | 0.2197 | 7.2000e-004 | 0.0547 | 1.0300e-003 | 0.0557 | 0.0147 | 9.9000e-004 | 0.0157 | 1.9613 | 142.4769 | 144.4383 | 0.1410 | 1.5300e-003 | 148.4213 |
|-------|--------|--------|--------|-------------|--------|-------------|--------|--------|-------------|--------|--------|----------|----------|--------|-------------|----------|

|                   | ROG  | NOx  | CO   | SO2  | 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 |

#### 4.0 Operational Detail - Mobile

##### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |         |
| Mitigated   | 0.0158  | 0.0812 | 0.2162 | 7.0000e-004 | 0.0547        | 7.2000e-004  | 0.0554     | 0.0147         | 6.8000e-004   | 0.0153      | 0.0000   | 64.4490   | 64.4490   | 3.6100e-003 | 0.0000 | 64.5393 |
| Unmitigated | 0.0158  | 0.0812 | 0.2162 | 7.0000e-004 | 0.0547        | 7.2000e-004  | 0.0554     | 0.0147         | 6.8000e-004   | 0.0153      | 0.0000   | 64.4490   | 64.4490   | 3.6100e-003 | 0.0000 | 64.5393 |

##### 4.2 Trip Summary Information

|                         | Average Daily Trip Rate |          |        |            | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|------------|-------------|------------|
| Land Use                | Weekday                 | Saturday | Sunday | Annual VMT | Annual VMT  | Annual VMT |
| General Office Building | 57.00                   | 19.68    | 8.40   | 144,082    | 144,082     | 144,082    |
| Total                   | 57.00                   | 19.68    | 8.40   | 144,082    | 144,082     | 144,082    |

##### 4.3 Trip Type Information

|                         | Miles      | Trip %     |             |            |            | Trip Purpose % |         |          |         |
|-------------------------|------------|------------|-------------|------------|------------|----------------|---------|----------|---------|
| Land Use                | 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 |
| General Office Building | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00          | 77      | 19       | 4       |

##### 4.4 Fleet Mix

| Land Use                | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.547726 | 0.045437 | 0.201486 | 0.122766 | 0.016614 | 0.006096 | 0.019326 | 0.029174 | 0.002436 | 0.002356 | 0.005006 | 0.000677 | 0.000907 |

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   | 57.8794   | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |
| Electricity Unmitigated |             |      |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 57.8794   | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |
| NaturalGas Mitigated    | 4.5000e-004 | 0.03 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706  |
| NaturalGas Unmitigated  | 4.5000e-004 | 0.03 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706  |

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    |           |           |             |             |        |
| General Office Building | 83280          | 4.5000e-004 | 0.03 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706 |
| Total                   |                | 4.5000e-004 | 0.03 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706 |

Mitigated

|                         | Natural Gas 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    |           |           |             |             |        |
| General Office Building | 83280           | 4.5000e-004 | 4.0800e-003 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706 |
| Total                   |                 | 4.5000e-004 | 4.0800e-003 | 3.4300e-003 | 2.0000e-005 |               | 3.1000e-004  | 3.1000e-004 |                | 3.1000e-004   | 3.1000e-004 | 0.0000   | 4.4441    | 4.4441    | 9.0000e-005 | 8.0000e-005 | 4.4706 |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                         | Electricity Use | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-----------------|-----------|-------------|-------------|---------|
| Land Use                | KWh/yr          | MT/yr     |             |             |         |
| General Office Building | 103920          | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |
| Total                   |                 | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |

#### Mitigated

|                         | Electricity Use | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-----------------|-----------|-------------|-------------|---------|
| Land Use                | KWh/yr          | MT/yr     |             |             |         |
| General Office Building | 103920          | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |
| Total                   |                 | 57.8794   | 1.3700e-003 | 2.8000e-004 | 57.9979 |

6.0 Area Detail

6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 0.0326  | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |
| Unmitigated | 0.0326  | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG         | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-----------------------|-------------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| SubCategory           | tons/yr     |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Architectural Coating | 3.7100e-003 |        |             |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |
| Consumer Products     | 0.0289      |        |             |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |
| Landscaping           | 1.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |
| Total                 | 0.0326      | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |

Mitigated

|                   | ROG         | NOx    | CO          | SO2    | Fugitive<br>PM10 | Exhaust<br>PM10 | PM10 Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------------|-------------|--------|-------------|--------|------------------|-----------------|------------|-------------------|------------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| SubCategory       | tons/yr     |        |             |        |                  |                 |            |                   |                  |             | MT/yr    |             |             |        |        |             |
| Architectural     | 3.7100e-003 |        |             |        | 0.0000           | 0.0000          | 0.0000     | 0.0000            | 0.0000           | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |
| Coating           | 0.0289      |        |             |        |                  | 0.0000          | 0.0000     |                   | 0.0000           | 0.0000      | 0.0000   | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |
| Consumer Products | 1.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 |                  | 0.0000          | 0.0000     |                   | 0.0000           | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |
| Landscaping       |             |        |             |        |                  |                 |            |                   |                  |             |          |             |             |        |        |             |
| Total             | 0.0326      | 0.0000 | 1.0000e-004 | 0.0000 |                  | 0.0000          | 0.0000     |                   | 0.0000           | 0.0000      | 0.0000   | 2.0000e-004 | 2.0000e-004 | 0.0000 | 0.0000 | 2.1000e-004 |

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

|             | Total CO2 | CH4    | N2O         | CO2e    |
|-------------|-----------|--------|-------------|---------|
| Category    | MT/yr     |        |             |         |
| Mitigated   | 16.1553   | 0.0467 | 1.1700e-003 | 17.6717 |
| Unmitigated | 16.1553   | 0.0467 | 1.1700e-003 | 17.6717 |

## 7.2 Water by Land Use

### Unmitigated

|          | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------|--------------------|-----------|-----|-----|------|
| Land Use | Mgal               | MT/yr     |     |     |      |

|                         |                    |         |        |             |         |
|-------------------------|--------------------|---------|--------|-------------|---------|
| General Office Building | 1.42187 / 0.871469 | 16.1553 | 0.0467 | 1.1700e-003 | 17.6717 |
| Total                   |                    | 16.1553 | 0.0467 | 1.1700e-003 | 17.6717 |

### Mitigated

|                         | Indoor/Outdoor Use | Total CO2 | CH4    | N2O         | CO2e    |
|-------------------------|--------------------|-----------|--------|-------------|---------|
| Land Use                | Mgal               | MT/yr     |        |             |         |
| General Office Building | 1.42187 / 0.871469 | 16.1553   | 0.0467 | 1.1700e-003 | 17.6717 |
| Total                   |                    | 16.1553   | 0.0467 | 1.1700e-003 | 17.6717 |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 1.5103    | 0.0893 | 0.0000 | 3.7416 |
| Unmitigated | 1.5103    | 0.0893 | 0.0000 | 3.7416 |

8.2 Waste by Land Use

Unmitigated

|                         | Waste<br>Disposed | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|-------------------|-----------|--------|--------|--------|
| Land Use                | tons              | MT/yr     |        |        |        |
| General Office Building | 7.44              | 1.5103    | 0.0893 | 0.0000 | 3.7416 |
| Total                   |                   | 1.5103    | 0.0893 | 0.0000 | 3.7416 |

Mitigated

|                         | Waste<br>Disposed | Total CO2 | CH4    | N2O    | CO2e   |
|-------------------------|-------------------|-----------|--------|--------|--------|
| Land Use                | tons              | MT/yr     |        |        |        |
| General Office Building | 7.44              | 1.5103    | 0.0893 | 0.0000 | 3.7416 |
| Total                   |                   | 1.5103    | 0.0893 | 0.0000 | 3.7416 |

9.0 Operational Offroad

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



## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

### Boilers

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

### User Defined Equipment

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

## 11.0 Vegetation

1201 South Grand Avenue Existing - Los Angeles-South Coast County, Winter

**1201 South Grand Avenue Existing**

**Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses               | Size | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------|------|----------|-------------|--------------------|------------|
| General Office Building | 8.00 | 1000sqft | 0.58        | 8,000.00           | 0          |

1.2 Other Project Characteristics

|                         |                                         |                         |       |                           |       |
|-------------------------|-----------------------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Urban                                   | Wind Speed (m/s)        | 2.2   | Precipitation Freq (Days) | 33    |
| Climate Zone            | 11                                      |                         |       | Operational Year          | 2020  |
| Utility Company         | Los Angeles Department of Water & Power |                         |       |                           |       |
| CO2 Intensity (lb/MMhr) | 1227.89                                 | CH4 Intensity (lb/MMhr) | 0.029 | N2O Intensity (lb/MMhr)   | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Developer Information

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April

| Table Name      | Column Name | Default Value | New Value |
|-----------------|-------------|---------------|-----------|
| tblLandUse      | LotAcreage  | 0.18          | 0.58      |
| tblVehicleTrips | WD_TR       | 11.03         | 7.13      |

2.0 Emissions Summary

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      |             |             |             |               |              |             |                |               |             |          |             |             |             |             |             |
| Area     | 0.1788      | 1.0000e-005 | 8.2000e-004 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000      |             | 1.8700e-003 |
| Energy   | 2.4600e-003 | 0.0224      | 0.0188      | 1.3000e-004 |               | 1.7000e-003  | 1.7000e-003 |                | 1.7000e-003   | 1.7000e-003 |          | 26.8429     | 26.8429     | 5.1000e-004 | 4.9000e-004 | 27.0024     |
| Mobile   | 0.1136      | 0.5580      | 1.4934      | 4.8300e-003 | 0.3905        | 5.0900e-003  | 0.3956      | 0.1045         | 4.7700e-003   | 0.1093      |          | 490.5335    | 490.5335    | 0.0280      |             | 491.2330    |
| Total    | 0.2948      | 0.5604      | 1.5130      | 4.9600e-003 | 0.3905        | 6.7900e-003  | 0.3973      | 0.1045         | 6.4700e-003   | 0.1110      |          | 517.3781    | 517.3781    | 0.0285      | 4.9000e-004 | 518.2372    |

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      |             |             |             |               |              |             |                |               |             |          |             |             |             |             |             |
| Area     | 0.1788      | 1.0000e-005 | 8.2000e-004 | 0.0000      |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000      |             | 1.8700e-003 |
| Energy   | 2.4600e-003 | 0.0224      | 0.0188      | 1.3000e-004 |               | 1.7000e-003  | 1.7000e-003 |                | 1.7000e-003   | 1.7000e-003 |          | 26.8429     | 26.8429     | 5.1000e-004 | 4.9000e-004 | 27.0024     |
| Mobile   | 0.1136      | 0.5580      | 1.4934      | 4.8300e-003 | 0.3905        | 5.0900e-003  | 0.3956      | 0.1045         | 4.7700e-003   | 0.1093      |          | 490.5335    | 490.5335    | 0.0280      |             | 491.2330    |
| Total    | 0.2948      | 0.5604      | 1.5130      | 4.9600e-003 | 0.3905        | 6.7900e-003  | 0.3973      | 0.1045         | 6.4700e-003   | 0.1110      |          | 517.3781    | 517.3781    | 0.0285      | 4.9000e-004 | 518.2372    |

|                   | ROG  | NOx  | CO   | SO2  | 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 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.1136 | 0.5580 | 1.4934 | 4.8300e-003 | 0.3905        | 5.0900e-003  | 0.3956     | 0.1045         | 4.7700e-003   | 0.1093      |          | 490.5335  | 490.5335  | 0.0280 |     | 491.2330 |
| Unmitigated | 0.1136 | 0.5580 | 1.4934 | 4.8300e-003 | 0.3905        | 5.0900e-003  | 0.3956     | 0.1045         | 4.7700e-003   | 0.1093      |          | 490.5335  | 490.5335  | 0.0280 |     | 491.2330 |

4.2 Trip Summary Information

|                         | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| Land Use                | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| General Office Building | 57.00                   | 19.68    | 8.40   | 144,082     | 144,082    |
| Total                   | 57.00                   | 19.68    | 8.40   | 144,082     | 144,082    |

4.3 Trip Type Information

|                         | Miles      | Trip %     |             |            |            |             | Trip Purpose % |          |         |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use                | 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 |
| General Office Building | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |

4.4 Fleet Mix

| Land Use                | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCV      | SBUS     | MH       |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.547726 | 0.045437 | 0.201486 | 0.122766 | 0.016617 | 0.006090 | 0.019326 | 0.029177 | 0.002436 | 0.002355 | 0.005005 | 0.000677 | 0.000907 |

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  | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |
| Mitigated   |             |        |        |             |               |              |             |                |               |             |          |           |             |             |         |      |
| NaturalGas  | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |
| Unmitigated |             |        |        |             |               |              |             |                |               |             |          |           |             |             |         |      |

### 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   |           |             |             |         |      |
| General Office Building | 228.164        | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |
| Total                   |                | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |

#### 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   |           |             |             |         |      |
| General Office Building | 0.228164       | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |
| Total                   |                | 2.4600e-003 | 0.0224 | 0.0188 | 1.3000e-004 | 1.7000e-003   | 1.7000e-003  | 1.7000e-003 | 1.7000e-003    | 1.7000e-003   | 1.7000e-003 | 26.8429  | 26.8429   | 5.1000e-004 | 4.9000e-004 | 27.0024 |      |

6.0 Area Detail

6.1 Mitigation Measures Area

|             | ROG    | NOX         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|-------------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |             |             |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 0.1788 | 1.0000e-005 | 8.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |
| Unmitigated | 0.1788 | 1.0000e-005 | 8.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |

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 | 0.0203      |             |             |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |             | 0.0000      |        |     | 0.0000      |
| Consumer Products     | 0.1584      |             |             |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |             | 0.0000      |        |     | 0.0000      |
| Landscaping           | 8.0000e-005 | 1.0000e-005 | 8.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |
| Total                 | 0.1788      | 1.0000e-005 | 8.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |

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 | 0.0203      |             |             |        | 0.0000        | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |             | 0.0000      |        |     | 0.0000      |
| Consumer Products     | 0.1584      |             |             |        | 0.0000        | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |             | 0.0000      |        |     | 0.0000      |
| Landscaping           | 8.0000e-005 | 1.0000e-005 | 8.2000e-004 | 0.0000 | 0.0000        | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |
| Total                 | 0.1788      | 1.0000e-005 | 8.2000e-004 | 0.0000 | 0.0000        | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.7500e-003 | 1.7500e-003 | 0.0000 |     | 1.8700e-003 |

## 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

### 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 |
|----------------|--------|
|----------------|--------|



DOUGLASKIM+ASSOCIATES,LLC

FUTURE CONDITIONS



1201 South Grand Avenue Future - Los Angeles-South Coast County, Summer

## 1201 South Grand Avenue Future Los Angeles-South Coast County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 352.00 | Space         | 0.00        | 140,800.00         | 0          |
| High Turnover (Sit Down Restaurant) | 7.10   | 1000sqft      | 0.00        | 7,100.00           | 0          |
| Apartment High Rise                 | 312.00 | Dwelling Unit | 0.58        | 330,876.00         | 703        |

#### 1.2 Other Project Characteristics

|                 |                                         |                  |     |                           |      |
|-----------------|-----------------------------------------|------------------|-----|---------------------------|------|
| Urbanization    | Urban                                   | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33   |
| Climate Zone    | 11                                      |                  |     | Operational Year          | 2025 |
| Utility Company | Los Angeles Department of Water & Power |                  |     |                           |      |

|                            |         |                            |       |                            |       |
|----------------------------|---------|----------------------------|-------|----------------------------|-------|
| CO2 Intensity<br>(lb/MWhr) | 1227.89 | CH4 Intensity<br>(lb/MWhr) | 0.029 | N2O Intensity<br>(lb/MWhr) | 0.006 |
|----------------------------|---------|----------------------------|-------|----------------------------|-------|

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

Project Characteristics -

Land Use - Developer information

Construction Phase - Developer information

Trips and VMT - Demolition assumes 14 ton capacity per demolition haul truck; grading assumes 16 CY capacity per haul truck.

Demolition - 44,769 sf of buildings @ 12' height = 19,897 CY @400 lb/CY = 3,969 tons

Grading - Assumes 3x passover for grading phase

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April

Woodstoves - Developer information

Energy Use -

Energy Mitigation - Under SB 100, LADWP is required to generate electricity that increases renewable energy resources to 50 percent by 2026 and 60 percent by 2030. Energy Mitigation - AB 341 (2011) amended the regulation to call for at least 75 percent of solid waste generated to be reduced, recycled, or composted by 2020, and 80 percent by 2030.

| Table Name             | Column Name                    | Default Value | New Value  |
|------------------------|--------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 46         |
| tblConstructionPhase   | NumDays                        | 5.00          | 44.00      |
| tblConstructionPhase   | NumDays                        | 100.00        | 870.00     |
| tblConstructionPhase   | NumDays                        | 10.00         | 41.00      |
| tblConstructionPhase   | NumDays                        | 2.00          | 44.00      |
| tblFireplaces          | NumberGas                      | 265.20        | 0.00       |
| tblFireplaces          | NumberNoFireplace              | 31.20         | 312.00     |
| tblFireplaces          | NumberWood                     | 15.60         | 0.00       |
| tblGrading             | AcresOfGrading                 | 0.00          | 1.75       |
| tblGrading             | MaterialExported               | 0.00          | 48,000.00  |
| tblLandUse             | LandUseSquareFeet              | 312,000.00    | 330,876.00 |
| tblLandUse             | LotAcreage                     | 3.17          | 0.00       |
| tblLandUse             | LotAcreage                     | 0.16          | 0.00       |
| tblLandUse             | LotAcreage                     | 5.03          | 0.58       |
| tblLandUse             | Population                     | 892.00        | 703.00     |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripNumber              | 432.00        | 624.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 58.00         | 260.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 160.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 100.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 40.00      |
| tblTripsAndVMT         | WorkerTripNumber               | 287.00        | 400.00     |

|                |                    |        |       |
|----------------|--------------------|--------|-------|
| tbTripsAndVMT  | WorkerTripNumber   | 57.00  | 60.00 |
| tbVehicleTrips | CC_TL              | 8.40   | 5.57  |
| tbVehicleTrips | CNW_TL             | 6.90   | 5.57  |
| tbVehicleTrips | CW_TL              | 16.60  | 5.57  |
| tbVehicleTrips | HO_TL              | 8.70   | 5.57  |
| tbVehicleTrips | HO_TTP             | 40.60  | 41.00 |
| tbVehicleTrips | HS_TL              | 5.90   | 5.57  |
| tbVehicleTrips | HS_TTP             | 19.20  | 19.00 |
| tbVehicleTrips | HW_TL              | 14.70  | 5.57  |
| tbVehicleTrips | HW_TTP             | 40.20  | 40.00 |
| tbVehicleTrips | ST_TR              | 4.98   | 3.36  |
| tbVehicleTrips | ST_TR              | 158.37 | 44.85 |
| tbVehicleTrips | SU_TR              | 3.65   | 3.36  |
| tbVehicleTrips | SU_TR              | 131.84 | 44.85 |
| tbVehicleTrips | WD_TR              | 4.20   | 3.36  |
| tbVehicleTrips | WD_TR              | 127.15 | 44.85 |
| tbWoodstoves   | NumberCatalytic    | 15.60  | 0.00  |
| tbWoodstoves   | NumberNoncatalytic | 15.60  | 0.00  |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

| Year | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
|      | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2022 | 3.0341 | 56.8767 | 28.2607 | 0.1820 | 6.1357        | 0.4958       | 6.5877     | 1.6650         | 0.4738        | 2.1199      | 0.0000   | 19,558.058 | 19,558.058 | 1.3751 | 0.0000 | 19,592.435 |
|      |        |         |         |        |               |              |            |                |               |             |          | 8          | 8          |        |        | 1          |
| 2023 | 2.6908 | 25.5966 | 26.4246 | 0.1179 | 6.1357        | 0.3753       | 6.5110     | 1.6650         | 0.3461        | 2.0111      | 0.0000   | 12,200.130 | 12,200.130 | 0.8269 | 0.0000 | 12,220.802 |
|      |        |         |         |        |               |              |            |                |               |             |          | 0          | 0          |        |        | 4          |



|        |        |        |         |             |        |        |        |        |        |        |            |            |            |        |            |            |
|--------|--------|--------|---------|-------------|--------|--------|--------|--------|--------|--------|------------|------------|------------|--------|------------|------------|
| Area   | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 | 0.1428 | 0.1428 | 0.1428 | 0.1428 | 0.1428 | 0.0000 | 46.4269    | 46.4269    | 0.0446     | 0.0000 | 47.5416    |            |
| Energy | 0.1334 | 1.1661 | 0.6786  | 7.2700e-003 | 0.0922 | 0.0922 | 0.0922 | 0.0922 | 0.0922 | 0.0922 | 1,454.9819 | 1,454.9819 | 0.0279     | 0.0267 | 1,463.6281 |            |
| Mobile | 1.5313 | 6.3809 | 14.6950 | 0.0550      | 4.5998 | 0.0420 | 4.6418 | 1.2307 | 0.0390 | 1.2697 | 5,622.6162 | 5,622.6162 | 0.2746     |        | 5,629.4803 |            |
| Total  | 9.7780 | 7.8436 | 41.1262 | 0.0637      | 4.5998 | 0.2770 | 4.8767 | 1.2307 | 0.2739 | 1.5047 | 0.0000     | 7,124.0249 | 7,124.0249 | 0.3471 | 0.0267     | 7,140.6501 |

### 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     | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269    | 46.4269    | 0.0446 | 0.0000 | 47.5416    |
| Energy   | 0.1334 | 1.1661 | 0.6786  | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Mobile   | 1.5313 | 6.3809 | 14.6950 | 0.0550      | 4.5998        | 0.0420       | 4.6418     | 1.2307         | 0.0390        | 1.2697      |          | 5,622.6162 | 5,622.6162 | 0.2746 |        | 5,629.4803 |
| Total    | 9.7780 | 7.8436 | 41.1262 | 0.0637      | 4.5998        | 0.2770       | 4.8767     | 1.2307         | 0.2739        | 1.5047      | 0.0000   | 7,124.0249 | 7,124.0249 | 0.3471 | 0.0267 | 7,140.6501 |

|                   | ROG  | NOx  | CO   | SO2  | 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            | Demolition            | Demolition            | 1/3/2022   | 2/28/2022 | 5             | 41       |                   |
| 2            | Grading               | Grading               | 3/1/2022   | 4/29/2022 | 5             | 44       |                   |
| 3            | Building Construction | Building Construction | 5/2/2022   | 8/31/2025 | 5             | 870      |                   |

|   |                       |                       |          |           |   |    |
|---|-----------------------|-----------------------|----------|-----------|---|----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2025 | 7/31/2025 | 5 | 44 |
|---|-----------------------|-----------------------|----------|-----------|---|----|

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.75

Acres of Paving: 0

Residential Indoor: 670,024; Residential Outdoor: 223,341; Non-Residential Indoor: 10,650; Non-Residential Outdoor: 3,550; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 100.00             | 60.00              | 624.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 40.00              | 60.00              | 6,000.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 400.00             | 260.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 60.00              | 160.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area  
Clean Paved Roads

3.2 Demolition - 2022

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 |        |        |        |        | 2.2793        | 0.0000       | 2.2793     | 0.3451         | 0.0000        | 0.3451      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |               | 0.3375       | 0.3375     |                | 0.3225        | 0.3225      |          | 1,147.9025 | 1,147.9025 | 0.2119 |     | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 2.2793        | 0.3375       | 2.6168     | 0.3451         | 0.3225        | 0.6676      |          | 1,147.9025 | 1,147.9025 | 0.2119 |     | 1,153.2001 |

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  | 0.1698 | 5.0020  | 1.3366 | 0.0168 | 0.3990        | 0.0161       | 0.4151     | 0.1094         | 0.0154        | 0.1248      |          | 1,823.2298 | 1,823.2298 | 0.1180 |     | 1,826.1796 |
| Vendor   | 0.1712 | 5.5398  | 1.4409 | 0.0153 | 0.3841        | 0.0104       | 0.3946     | 0.1106         | 9.9600e-003   | 0.1206      |          | 1,634.9153 | 1,634.9153 | 0.0938 |     | 1,637.2609 |
| Worker   | 0.4015 | 0.2661  | 3.7160 | 0.0110 | 1.1178        | 8.7500e-003  | 1.1265     | 0.2964         | 8.0600e-003   | 0.3045      |          | 1,098.7123 | 1,098.7123 | 0.0303 |     | 1,099.4704 |
| Total    | 0.7425 | 10.8079 | 6.4936 | 0.0431 | 1.9009        | 0.0353       | 1.9362     | 0.5164         | 0.0334        | 0.5498      |          | 4,556.8574 | 4,556.8574 | 0.2421 |     | 4,562.9109 |

Mitigated Construction On-Site





|               |        |        |        |        |        |        |        |        |        |        |  |  |            |            |        |        |  |  |            |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|------------|------------|--------|--------|--|--|------------|
| Fugitive Dust |        |        |        |        | 0.9183 | 0.0000 | 0.9183 | 0.4370 | 0.0000 | 0.4370 |  |  |            | 0.0000     |        | 0.0000 |  |  | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |        | 0.3375 | 0.3375 |        | 0.3225 | 0.3225 |  |  | 1,147.9025 | 1,147.9025 | 0.2119 |        |  |  | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 0.9183 | 0.3375 | 1.2558 | 0.4370 | 0.3225 | 0.7596 |  |  | 1,147.9025 | 1,147.9025 | 0.2119 |        |  |  | 1,153.2001 |

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  | 1.5214 | 44.8166 | 11.9760 | 0.1504      | 3.5753        | 0.1443       | 3.7196     | 0.9799         | 0.1381        | 1.1180      |          | 16,335.756 | 16,335.756 | 1.0572 |     | 16,362.185 |
|          |        |         |         |             |               |              |            |                |               |             |          | 1          | 1          |        |     | 9          |
| Vendor   | 0.1712 | 5.5398  | 1.4409  | 0.0153      | 0.3841        | 0.0104       | 0.3946     | 0.1106         | 9.9600e-003   | 0.1206      |          | 1,634.9153 | 1,634.9153 | 0.0938 |     | 1,637.2609 |
| Worker   | 0.1606 | 0.1065  | 1.4864  | 4.4100e-003 | 0.4471        | 3.5000e-003  | 0.4506     | 0.1186         | 3.2200e-003   | 0.1218      |          | 439.4849   | 439.4849   | 0.0121 |     | 439.7882   |
| Total    | 1.8532 | 50.4628 | 14.9033 | 0.1700      | 4.4065        | 0.1582       | 4.5648     | 1.2091         | 0.1513        | 1.3604      |          | 18,410.156 | 18,410.156 | 1.1632 |     | 18,439.235 |
|          |        |         |         |             |               |              |            |                |               |             |          | 3          | 3          |        |     | 0          |

Mitigated Construction On-Site

|               | ROG    | NOX    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2  | CH4        | N2O    | CO2e       |
|---------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|------------|------------|--------|------------|
| Category      | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |           |            |            |        |            |
| Fugitive Dust |        |        |        |        | 0.3402        | 0.0000       | 0.3402     | 0.1619         | 0.0000        | 0.1619      |          |           | 0.0000     |            |        | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |               | 0.3375       | 0.3375     |                | 0.3225        | 0.3225      | 0.0000   |           | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 0.3402        | 0.3375       | 0.6778     | 0.1619         | 0.3225        | 0.4845      | 0.0000   |           | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |



| 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   | 0.7417 | 24.0059 | 6.2439  | 0.0662 | 1.6646 | 0.0451 | 1.7097 | 0.4793 | 0.0432 | 0.5224 | 7,084.6331  | 7,084.6331  | 0.4066 | 7,094.7971  |
| Worker   | 1.6061 | 1.0646  | 14.8641 | 0.0441 | 4.4711 | 0.0350 | 4.5061 | 1.1858 | 0.0322 | 1.2180 | 4,394.8493  | 4,394.8493  | 0.1213 | 4,397.8818  |
| Total    | 2.3478 | 25.0704 | 21.1080 | 0.1103 | 6.1357 | 0.0801 | 6.2158 | 1.6650 | 0.0754 | 1.7404 | 11,479.4824 | 11,479.4824 | 0.5279 | 11,492.6789 |

Mitigated Construction On-Site

| Category | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Off-Road | 0.6863 | 7.0258 | 7.1527 | 0.0114 |               | 0.3719       | 0.3719     |                | 0.3422        | 0.3422      | 0.0000   | 1,103.9393 | 1,103.9393 | 0.3570 |     | 1,112.8652 |
| Total    | 0.6863 | 7.0258 | 7.1527 | 0.0114 |               | 0.3719       | 0.3719     |                | 0.3422        | 0.3422      | 0.0000   | 1,103.9393 | 1,103.9393 | 0.3570 |     | 1,112.8652 |

Mitigated Construction Off-Site

| Category | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2 | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|-----|------------|
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000     | 0.0000     | 0.0000    | 0.0000 |     | 0.0000     |
| Vendor   | 0.7417 | 24.0059 | 6.2439  | 0.0662 | 1.1191        | 0.0451       | 1.1642     | 0.3454         | 0.0432        | 0.3885      | 7,084.6331 | 7,084.6331 | 0.4066    |        |     | 7,094.7971 |
| Worker   | 1.6061 | 1.0646  | 14.8641 | 0.0441 | 2.6830        | 0.0350       | 2.7180     | 0.7469         | 0.0322        | 0.7791      | 4,394.8493 | 4,394.8493 | 0.1213    |        |     | 4,397.8818 |

|       |        |         |         |        |        |        |        |        |        |        |  |            |            |        |  |            |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Total | 2.3478 | 25.0704 | 21.1080 | 0.1103 | 3.8021 | 0.0801 | 3.8822 | 1.0922 | 0.0754 | 1.1676 |  | 11,479,482 | 11,479,482 | 0.5279 |  | 11,492,678 |
|       |        |         |         |        |        |        |        |        |        |        |  | 4          | 4          |        |  | 9          |

### 3.4 Building Construction - 2023

#### Unmitigated Construction On-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |        |        |               |              |            |                |               |             |          |            |            |        |     |            |
| Off-Road | 0.6322 | 6.4186 | 7.0970 | 0.0114 |               | 0.3203       | 0.3203     |                | 0.2946        | 0.2946      |          | 1,104,6089 | 1,104,6089 | 0.3573 |     | 1,113,5402 |
| Total    | 0.6322 | 6.4186 | 7.0970 | 0.0114 |               | 0.3203       | 0.3203     |                | 0.2946        | 0.2946      |          | 1,104,6089 | 1,104,6089 | 0.3573 |     | 1,113,5402 |

#### 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 |         |         |        |               |              |            |                |               |             |          |            |            |        |     |            |
| 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   | 0.5503 | 18.2148 | 5.6390  | 0.0640 | 1.6646        | 0.0210       | 1.6857     | 0.4793         | 0.0201        | 0.4994      |          | 6,861,5931 | 6,861,5931 | 0.3603 |     | 6,870,6001 |
| Worker   | 1.5082 | 0.9632  | 13.6885 | 0.0425 | 4.4711        | 0.0340       | 4.5051     | 1.1858         | 0.0313        | 1.2171      |          | 4,233,9280 | 4,233,9280 | 0.1094 |     | 4,236,6622 |
| Total    | 2.0585 | 19.1779 | 19.3275 | 0.1065 | 6.1357        | 0.0550       | 6.1907     | 1.6650         | 0.0514        | 1.7165      |          | 11,095,521 | 11,095,521 | 0.4697 |     | 11,107,262 |
|          |        |         |         |        |               |              |            |                |               |             |          | 1          | 1          |        |     | 2          |

#### Mitigated Construction On-Site



|          |        |        |        |        |  |        |        |  |        |        |  |            |            |        |  |            |
|----------|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--|------------|
| Off-Road | 0.5950 | 5.9739 | 7.0675 | 0.0114 |  | 0.2824 | 0.2824 |  | 0.2598 | 0.2598 |  | 1,104.9834 | 1,104.9834 | 0.3574 |  | 1,113.9177 |
| Total    | 0.5950 | 5.9739 | 7.0675 | 0.0114 |  | 0.2824 | 0.2824 |  | 0.2598 | 0.2598 |  | 1,104.9834 | 1,104.9834 | 0.3574 |  | 1,113.9177 |

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 | MBio- 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   | 0.5371 | 18.1453 | 5.4672  | 0.0637 | 1.6647        | 0.0208       | 1.6855     | 0.4793         | 0.0199        | 0.4992      |          | 6,833.7472 | 6,833.7472 | 0.3552 |     | 6,842.6258 |
| Worker   | 1.4268 | 0.8784  | 12.7609 | 0.0412 | 4.4711        | 0.0335       | 4.5046     | 1.1868         | 0.0309        | 1.2166      |          | 4,102.7131 | 4,102.7131 | 0.1003 |     | 4,105.2215 |
| Total    | 1.9638 | 19.0236 | 18.2281 | 0.1049 | 6.1357        | 0.0543       | 6.1900     | 1.6651         | 0.0507        | 1.7158      |          | 10,936.460 | 10,936.460 | 0.4555 |     | 10,947.847 |
|          |        |         |         |        |               |              |            |                |               |             |          | 2          | 2          |        |     | 3          |

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 | MBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 0.5950 | 5.9739 | 7.0675 | 0.0114 |               | 0.2824       | 0.2824     |                | 0.2598        | 0.2598      | 0.0000   | 1,104.9834 | 1,104.9834 | 0.3574 |     | 1,113.9177 |
| Total    | 0.5950 | 5.9739 | 7.0675 | 0.0114 |               | 0.2824       | 0.2824     |                | 0.2598        | 0.2598      | 0.0000   | 1,104.9834 | 1,104.9834 | 0.3574 |     | 1,113.9177 |

## 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   | 0.5371 | 18.1453 | 5.4672  | 0.0637 | 1.1192        | 0.0208       | 1.1399     | 0.3454         | 0.0199        | 0.3653      |          | 6.833,7472 | 6.833,7472 | 0.3552 |     | 6.842.6258 |
| Worker   | 1.4268 | 0.8784  | 12.7609 | 0.0412 | 2.6830        | 0.0335       | 2.7166     | 0.7469         | 0.0309        | 0.7777      |          | 4,102.7131 | 4,102.7131 | 0.1003 |     | 4,105.2215 |
| Total    | 1.9638 | 19.0236 | 18.2281 | 0.1049 | 3.8022        | 0.0543       | 3.8565     | 1.0923         | 0.0507        | 1.1430      |          | 10,936.460 | 10,936.460 | 0.4555 |     | 10,947.847 |

### 3.4.4 Building Construction - 2025

## Unmitigated Construction On-Site

| Category | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
|          | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      |          | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |
| Total    | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      |          | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |

## Unmitigated Construction Off-Site

[illegible]

| 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   | 0.5235 | 17.9912 | 5.3268  | 0.0633 | 1.6647 | 0.0205 | 1.6852 | 0.4793 | 0.0196 | 0.4989 | 6,796.0927 | 6,796.0927 | 0.3502 | 6,804.8468 |
| Worker   | 1.3548 | 0.8037  | 11.8520 | 0.0396 | 4.4711 | 0.0328 | 4.5039 | 1.1858 | 0.0302 | 1.2160 | 3,943.7399 | 3,943.7399 | 0.0915 | 3,946.0281 |
| Total    | 1.8783 | 18.7949 | 17.1787 | 0.1029 | 6.1358 | 0.0533 | 6.1891 | 1.6651 | 0.0498 | 1.7148 | 10,739.832 | 10,739.832 | 0.4417 | 10,750.874 |

Mitigated Construction On-Site

| Category | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Off-Road | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      | 0.0000   | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |
| Total    | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      | 0.0000   | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |

Mitigated Construction Off-Site

| Category | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2 | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|-----|------------|
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000     | 0.0000     | 0.0000    | 0.0000 |     | 0.0000     |
| Vendor   | 0.5235 | 17.9912 | 5.3268  | 0.0633 | 1.1192        | 0.0205       | 1.1396     | 0.3454         | 0.0196        | 0.3650      | 6,796.0927 | 6,796.0927 | 0.3502    |        |     | 6,804.8468 |
| Worker   | 1.3548 | 0.8037  | 11.8520 | 0.0396 | 2.6830        | 0.0328       | 2.7159     | 0.7469         | 0.0302        | 0.7771      | 3,943.7399 | 3,943.7399 | 0.0915    |        |     | 3,946.0281 |



|       |        |         |         |        |        |        |        |        |        |        |  |                         |                         |        |  |                         |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------------------|-------------------------|--------|--|-------------------------|
| Total | 1.8783 | 18.7949 | 17.1787 | 0.1029 | 3.8022 | 0.0533 | 3.8555 | 1.0923 | 0.0498 | 1.1420 |  | 10,739,832 <sup>6</sup> | 10,739,832 <sup>6</sup> | 0.4417 |  | 10,750,874 <sup>9</sup> |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------------------|-------------------------|--------|--|-------------------------|

### 3.5 Architectural Coating - 2025

#### 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  |        |        |             |               |              |            |                |               |             |          |           |           |        |     |          |
| Archit. Coating | 49.4397 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road        | 0.1709  | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |
| Total           | 49.6106 | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |

#### 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 |         |        |             |               |              |            |                |               |             |          |            |            |        |     |            |
| 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     |
| Vendor   | 0.3222 | 11.0715 | 3.2780 | 0.0390      | 1.0244        | 0.0126       | 1.0370     | 0.2950         | 0.0120        | 0.3070      |          | 4,182.2109 | 4,182.2109 | 0.2155 |     | 4,187.5981 |
| Worker   | 0.2032 | 0.1206  | 1.7778 | 5.9300e-003 | 0.6707        | 4.9200e-003  | 0.6756     | 0.1779         | 4.5300e-003   | 0.1824      |          | 591.5610   | 591.5610   | 0.0137 |     | 591.9042   |
| Total    | 0.5254 | 11.1921 | 5.0558 | 0.0449      | 1.6951        | 0.0175       | 1.7126     | 0.4728         | 0.0166        | 0.4894      |          | 4,773.7719 | 4,773.7719 | 0.2292 |     | 4,779.5023 |

#### 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 | 49.4397 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road        | 0.1709  | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      | 0.0000   | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |
| Total           | 49.6106 | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      | 0.0000   | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |

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   | 0.3222 | 11.0715 | 3.2780 | 0.0390      | 0.6887        | 0.0126       | 0.7013     | 0.2126         | 0.0120        | 0.2246      |          | 4,182.2109 | 4,182.2109 | 0.2155 |     | 4,187.5981 |
| Worker   | 0.2032 | 0.1206  | 1.7778 | 5.9300e-003 | 0.4025        | 4.9200e-003  | 0.4074     | 0.1120         | 4.5300e-003   | 0.1166      |          | 591.5610   | 591.5610   | 0.0137 |     | 591.9042   |
| Total    | 0.5254 | 11.1921 | 5.0558 | 0.0449      | 1.0912        | 0.0175       | 1.1087     | 0.3246         | 0.0166        | 0.3412      |          | 4,773.7719 | 4,773.7719 | 0.2292 |     | 4,779.5023 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 1.5313 | 6.3809 | 14.6950 | 0.0550 | 4.5998        | 0.0420       | 4.6418     | 1.2307         | 0.0390        | 1.2697      |          | 5,622.6162 | 5,622.6162 | 0.2746 |     | 5,629.4803 |
| Unmitigated | 1.5313 | 6.3809 | 14.6950 | 0.0550 | 4.5998        | 0.0420       | 4.6418     | 1.2307         | 0.0390        | 1.2697      |          | 5,622.6162 | 5,622.6162 | 0.2746 |     | 5,629.4803 |

#### 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated |  | Mitigated  |  |
|-------------------------------------|-------------------------|----------|----------|-------------|--|------------|--|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  |  | Annual VMT |  |
| Apartments High Rise                | 1,048.32                | 1,048.32 | 1048.32  | 1,887,480   |  | 1,887,480  |  |
| Enclosed Parking with Elevator      | 0.00                    | 0.00     | 0.00     |             |  |            |  |
| High Turnover (Sit Down Restaurant) | 318.44                  | 318.44   | 318.44   | 276,145     |  | 276,145    |  |
| Total                               | 1,366.76                | 1,366.76 | 1,366.76 | 2,163,625   |  | 2,163,625  |  |

#### 4.3 Trip Type Information

| Land Use                            | Miles      |            |             |            | Trip %     |             |         |          | Trip Purpose % |  |  |  |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|---------|----------|----------------|--|--|--|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by        |  |  |  |
| Apartments High Rise                | 5.57       | 5.57       | 5.57        | 40.00      | 19.00      | 41.00       | 86      | 11       | 3              |  |  |  |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0       | 0        | 0              |  |  |  |
| High Turnover (Sit Down Restaurant) | 5.57       | 5.57       | 5.57        | 8.30       | 72.30      | 19.00       | 37      | 20       | 43             |  |  |  |

#### 4.4 Fleet Mix

| Land Use                            | LDA      | LD T1    | LD T2    | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise                | 0.544880 | 0.044497 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |
| Enclosed Parking with Elevator      | 0.544880 | 0.044497 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |
| High Turnover (Sit Down Restaurant) | 0.544880 | 0.044497 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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  | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Mitigated   |        |        |        |             |               |              |            |                |               |             |          |            |            |        |        |            |
| NaturalGas  | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Unmitigated |        |        |        |             |               |              |            |                |               |             |          |            |            |        |        |            |

### 5.2 Energy by Land Use - NaturalGas

Unmitigated

|                                     | NaturalGas Use | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O         | CO2e       |
|-------------------------------------|----------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-------------|------------|
| Land Use                            | kBTU/yr        | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |             |            |
| Apartments High Rise                | 7878.59        | 0.0850 | 0.7261 | 0.3090 | 4.6300e-003 |               | 0.0587       | 0.0587     |                | 0.0587        | 0.0587      |          | 926.8929   | 926.8929   | 0.0178 | 0.0170      | 932.4010   |
| Enclosed Parking with Elevator      | 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     |
| High Turnover (Sit Down Restaurant) | 4488.76        | 0.0484 | 0.4401 | 0.3697 | 2.6400e-003 |               | 0.0335       | 0.0335     |                | 0.0335        | 0.0335      |          | 528.0890   | 528.0890   | 0.0101 | 9.6800e-003 | 531.2271   |
| Total                               |                | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267      | 1,463.6281 |

Mitigated

|                                     | Natural Gas 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 |        |        |             |               |              |            |                |               |             |          |            |            |        |             |            |
| Apartments High Rise                | 7.87859         | 0.0850 | 0.7261 | 0.3090 | 4.6300e-003 |               | 0.0587       | 0.0587     |                | 0.0587        | 0.0587      |          | 926.8929   | 926.8929   | 0.0178 | 0.0170      | 932.4010   |
| Enclosed Parking with Elevator      | 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     |
| High Turnover (Sit Down Restaurant) | 4.48876         | 0.0484 | 0.4401 | 0.3697 | 2.6400e-003 |               | 0.0335       | 0.0335     |                | 0.0335        | 0.0335      |          | 528.0890   | 528.0890   | 0.0101 | 9.6800e-003 | 531.2271   |
| Total                               |                 | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267      | 1,463.6281 |

6.0 Area Detail

6.1 Mitigation Measures Area

|             | ROG    | NOX    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category    | lb/day |        |         |             |               |              |            |                |               |             |          |           |           |        |        |         |
| Mitigated   | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |
| Unmitigated | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG    | NOK    | CO      | SO2         | 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 | 0.5960 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Consumer Products     | 6.7418 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Hearth                | 0.0000 | 0.0000 | 0.0000  | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Landscaping           | 0.7755 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      |          | 46.4269   | 46.4269   | 0.0446 |        | 47.5416 |
| Total                 | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

Mitigated

|                       | ROG    | NOK    | CO      | SO2         | 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 | 0.5960 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Consumer Products     | 6.7418 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Hearth                | 0.0000 | 0.0000 | 0.0000  | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Landscaping           | 0.7755 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      |          | 46.4269   | 46.4269   | 0.0446 |        | 47.5416 |
| Total                 | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

1201 South Grand Avenue Future - Los Angeles-South Coast County, Annual  
**1201 South Grand Avenue Future**  
 Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 352.00 | Space         | 0.00        | 140,800.00         | 0          |
| High Turnover (Sit Down Restaurant) | 7.10   | 1000sqft      | 0.00        | 7,100.00           | 0          |
| Apartment High Rise                 | 312.00 | Dwelling Unit | 0.58        | 330,876.00         | 703        |

### 1.2 Other Project Characteristics

|                 |                                         |                  |     |                           |      |
|-----------------|-----------------------------------------|------------------|-----|---------------------------|------|
| Urbanization    | Urban                                   | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33   |
| Climate Zone    | 11                                      |                  |     | Operational Year          | 2025 |
| Utility Company | Los Angeles Department of Water & Power |                  |     |                           |      |

|                          |         |                          |       |                          |       |
|--------------------------|---------|--------------------------|-------|--------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 1227.89 | 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 - Developer information

Construction Phase - Developer information

Trips and VMT - Demolition assumes 14 ton capacity per demolition haul truck; grading assumes 16 CY capacity per haul truck.

Demolition - 44,769 sf of buildings @ 12' height = 19,897 CY @400 lb/CY = 3,969 tons

Grading - Assumes 3x passover for grading phase

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April



Woodstoves - Developer information

Energy Use -

Energy Mitigation - Under SB 100, LADWP is required to generate electricity that increases renewable energy resources to 50 percent by 2026 and 60 percent by 2030. Waste Mitigation - AB 341 (2011) amended the regulation to call for at least 75 percent of solid waste generated to be reduced, recycled, or composted by 2020,

| Table Name             | Column Name                    | Default Value | New Value  |
|------------------------|--------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 46         |
| tblConstructionPhase   | NumDays                        | 5.00          | 44.00      |
| tblConstructionPhase   | NumDays                        | 100.00        | 870.00     |
| tblConstructionPhase   | NumDays                        | 10.00         | 41.00      |
| tblConstructionPhase   | NumDays                        | 2.00          | 44.00      |
| tblFireplaces          | NumberGas                      | 265.20        | 0.00       |
| tblFireplaces          | NumberNoFireplace              | 31.20         | 312.00     |
| tblFireplaces          | NumberWood                     | 15.60         | 0.00       |
| tblGrading             | AcresOfGrading                 | 0.00          | 1.75       |
| tblGrading             | MaterialExported               | 0.00          | 48,000.00  |
| tblLandUse             | LandUseSquareFoot              | 312,000.00    | 330,876.00 |
| tblLandUse             | LotAcresage                    | 3.17          | 0.00       |
| tblLandUse             | LotAcresage                    | 0.16          | 0.00       |
| tblLandUse             | LotAcresage                    | 5.03          | 0.58       |
| tblLandUse             | Population                     | 892.00        | 703.00     |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripNumber              | 432.00        | 624.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 58.00         | 260.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 160.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 100.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 40.00      |
| tblTripsAndVMT         | WorkerTripNumber               | 287.00        | 400.00     |

|                |                    |        |       |
|----------------|--------------------|--------|-------|
| tbTripsAndVMT  | WorkerTripNumber   | 57.00  | 60.00 |
| tbVehicleTrips | CC_TL              | 8.40   | 5.57  |
| tbVehicleTrips | CNW_TL             | 6.90   | 5.57  |
| tbVehicleTrips | CW_TL              | 16.60  | 5.57  |
| tbVehicleTrips | HO_TL              | 8.70   | 5.57  |
| tbVehicleTrips | HO_TTP             | 40.60  | 41.00 |
| tbVehicleTrips | HS_TL              | 5.90   | 5.57  |
| tbVehicleTrips | HS_TTP             | 19.20  | 19.00 |
| tbVehicleTrips | HW_TL              | 14.70  | 5.57  |
| tbVehicleTrips | HW_TTP             | 40.20  | 40.00 |
| tbVehicleTrips | ST_TR              | 4.98   | 3.36  |
| tbVehicleTrips | ST_TR              | 158.37 | 44.85 |
| tbVehicleTrips | SU_TR              | 3.65   | 3.36  |
| tbVehicleTrips | SU_TR              | 131.84 | 44.85 |
| tbVehicleTrips | WD_TR              | 4.20   | 3.36  |
| tbVehicleTrips | WD_TR              | 127.15 | 44.85 |
| tbWoodsToxes   | NumberCatalytic    | 15.60  | 0.00  |
| tbWoodsToxes   | NumberNoncatalytic | 15.60  | 0.00  |

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|      | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2   | Total CO2  | CH4    | N2O    | CO2e       |
|------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|---------|------------|------------|--------|--------|------------|
| Year | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr   |            |            |        |        |            |
| 2022 | 0.3542  | 4.5035 | 3.2010 | 0.0155 | 0.7273        | 0.0582       | 0.7855     | 0.1965         | 0.0543        | 0.2508      | 0.0000  | 1,470.0492 | 1,470.0492 | 0.1069 | 0.0000 | 1,472.7228 |
| 2023 | 0.3526  | 3.3711 | 3.3564 | 0.0150 | 0.7827        | 0.0489       | 0.8316     | 0.2128         | 0.0450        | 0.2578      | 0.0000  | 1,408.2621 | 1,408.2621 | 0.0980 | 0.0000 | 1,410.7128 |



|    |           |           |        |        |
|----|-----------|-----------|--------|--------|
| 8  | 10-3-2023 | 1-2-2024  | 0.9364 | 0.9364 |
| 9  | 1-3-2024  | 4-2-2024  | 0.9025 | 0.9025 |
| 10 | 4-3-2024  | 7-2-2024  | 0.8956 | 0.8956 |
| 11 | 7-3-2024  | 10-2-2024 | 0.9056 | 0.9056 |
| 12 | 10-3-2024 | 1-2-2025  | 0.9119 | 0.9119 |
| 13 | 1-3-2025  | 4-2-2025  | 0.8649 | 0.8649 |
| 14 | 4-3-2025  | 7-2-2025  | 1.5819 | 1.5819 |
| 15 | 7-3-2025  | 9-30-2025 | 1.2193 | 1.2193 |
|    |           | Highest   | 1.5819 | 1.5819 |

## 2.2 Overall Operational

### Unmitigated Operational

|          | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|----------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Category | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |        |            |
| Area     | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647     | 5.2647     | 5.0600e-003 | 0.0000 | 5.3911     |
| Energy   | 0.0243  | 0.2128 | 0.1239 | 1.3300e-003 |               | 0.0168       | 0.0168     |                | 0.0168        | 0.0168      | 0.0000   | 1,563.1303 | 1,563.1303 | 0.0359      | 0.0109 | 1,567.2679 |
| Mobile   | 0.2603  | 1.1882 | 2.6348 | 9.6700e-003 | 0.8210        | 7.6500e-003  | 0.8287     | 0.2200         | 7.1100e-003   | 0.2271      | 0.0000   | 896.3152   | 896.3152   | 0.0455      | 0.0000 | 897.4523   |
| Waste    |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 46.2840  | 0.0000     | 46.2840    | 2.7353      | 0.0000 | 114.6666   |
| Water    |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 7.1329   | 243.2038   | 250.3366   | 0.7384      | 0.0185 | 274.3047   |
| Total    | 1.7208  | 1.4381 | 5.9777 | 0.0112      | 0.8210        | 0.0423       | 0.8633     | 0.2200         | 0.0418        | 0.2618      | 53.4168  | 2,707.9139 | 2,761.3308 | 3.5601      | 0.0294 | 2,859.0826 |

### Mitigated Operational

|          | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2   | Total CO2  | CH4         | N2O         | CO2e       |
|----------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|---------|------------|------------|-------------|-------------|------------|
| Category | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr   |            |            |             |             |            |
| Area     | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000  | 5.2647     | 5.2647     | 5.0600e-003 | 0.0000      | 5.3911     |
| Energy   | 0.0243  | 0.2128 | 0.1239 | 1.3300e-003 |               | 0.0168       | 0.0168     |                | 0.0168        | 0.0168      | 0.0000  | 931.0987   | 931.0987   | 0.0209      | 7.7900e-003 | 933.9428   |
| Mobile   | 0.2603  | 1.1882 | 2.6348 | 9.6700e-003 | 0.8210        | 7.6500e-003  | 0.8287     | 0.2200         | 7.1100e-003   | 0.2271      | 0.0000  | 896.3152   | 896.3152   | 0.0455      | 0.0000      | 897.4523   |
| Waste    |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 11.1082 | 0.0000     | 11.1082    | 0.6565      | 0.0000      | 27.5200    |
| Water    |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 7.1329  | 243.2038   | 250.3366   | 0.7384      | 0.0185      | 274.3047   |
| Total    | 1.7208  | 1.4381 | 5.9777 | 0.0112      | 0.8210        | 0.0423       | 0.8633     | 0.2200         | 0.0418        | 0.2618      | 18.2410 | 2,075.8824 | 2,094.1234 | 1.4663      | 0.0263      | 2,138.6109 |

|                   | ROG  | NOx  | CO   | SO2  | 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        | 65.85   | 23.34    | 24.16     | 58.81 | 10.52 | 25.20 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |  |  |  |  |  |  |  |  |  |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|--|--|--|--|--|--|--|--|--|
| 1            | Demolition            | Demolition            | 7/3/2022   | 2/28/2022 | 5             | 41       |                   |  |  |  |  |  |  |  |  |  |
| 2            | Grading               | Grading               | 3/1/2022   | 4/29/2022 | 5             | 44       |                   |  |  |  |  |  |  |  |  |  |
| 3            | Building Construction | Building Construction | 5/2/2022   | 8/31/2025 | 5             | 870      |                   |  |  |  |  |  |  |  |  |  |
| 4            | Architectural Coating | Architectural Coating | 6/1/2025   | 7/31/2025 | 5             | 44       |                   |  |  |  |  |  |  |  |  |  |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.75

Acres of Paving: 0

Residential Indoor: 670,024; Residential Outdoor: 223,341; Non-Residential Indoor: 10,650; Non-Residential Outdoor: 3,550; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 100.00             | 60.00              | 624.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 40.00              | 60.00              | 6,000.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 400.00             | 260.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 60.00              | 160.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Clean Paved Roads

3.2 Demolition - 2022

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 |         |        |        |             | 0.0467 | 0.0000      | 0.0467      | 7.0700e-003 | 0.0000      | 7.0700e-003 | 0.0000 | 0.0000  | 0.0000  | 0.0000      | 0.0000  |
| Off-Road      | 0.0145  | 0.1315 | 0.1531 | 2.5000e-004 |        | 6.9200e-003 | 6.9200e-003 | 6.9200e-003 | 6.6100e-003 | 6.6100e-003 | 0.0000 | 21.3479 | 21.3479 | 3.9400e-003 | 21.4464 |
| Total         | 0.0145  | 0.1315 | 0.1531 | 2.5000e-004 | 0.0467 | 6.9200e-003 | 0.0536      | 7.0700e-003 | 6.6100e-003 | 0.0137      | 0.0000 | 21.3479 | 21.3479 | 3.9400e-003 | 21.4464 |

Unmitigated Construction Off-Site

| Category | ROG         | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|----------|-------------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
|          | tons/yr     |             |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |         |
| Hauling  | 3.5100e-003 | 0.1064      | 0.0279 | 3.4000e-004 | 8.0400e-003   | 3.3000e-004  | 8.3700e-003 | 2.2100e-003    | 3.2000e-004   | 2.5300e-003 | 0.0000   | 33.7334   | 33.7334   | 2.2200e-003 | 0.0000 | 33.7888 |
| Vendor   | 3.5800e-003 | 0.1153      | 0.0311 | 3.1000e-004 | 7.7500e-003   | 2.2000e-004  | 7.9600e-003 | 2.2400e-003    | 2.1000e-004   | 2.4400e-003 | 0.0000   | 30.0528   | 30.0528   | 1.8000e-003 | 0.0000 | 30.0977 |
| Worker   | 8.2700e-003 | 6.2000e-003 | 0.0714 | 2.2000e-004 | 0.0225        | 1.8000e-004  | 0.0226      | 5.9700e-003    | 1.7000e-004   | 6.1300e-003 | 0.0000   | 19.5602   | 19.5602   | 5.4000e-004 | 0.0000 | 19.5736 |
| Total    | 0.0154      | 0.2279      | 0.1304 | 8.7000e-004 | 0.0383        | 7.3000e-004  | 0.0390      | 0.0104         | 7.0000e-004   | 0.0111      | 0.0000   | 83.3463   | 83.3463   | 4.5600e-003 | 0.0000 | 83.4601 |

Mitigated Construction On-Site

| Category      | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|---------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
|               | tons/yr |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |         |
| Fugitive Dust |         |        |        |             | 0.0173        | 0.0000       | 0.0173      | 2.6200e-003    | 0.0000        | 2.6200e-003 | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0145  | 0.1315 | 0.1531 | 2.5000e-004 |               | 6.9200e-003  | 6.9200e-003 |                | 6.6100e-003   | 6.6100e-003 | 0.0000   | 21.3479   | 21.3479   | 3.9400e-003 | 0.0000 | 21.4464 |
| Total         | 0.0145  | 0.1315 | 0.1531 | 2.5000e-004 | 0.0173        | 6.9200e-003  | 0.0242      | 2.6200e-003    | 6.6100e-003   | 9.2300e-003 | 0.0000   | 21.3479   | 21.3479   | 3.9400e-003 | 0.0000 | 21.4464 |

**Mitigated Construction Off-Site**

|          | ROG         | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e    |
|----------|-------------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|---------|
| Category | tons/yr     |             |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |         |
| Hauling  | 3.5100e-003 | 0.1064      | 0.0279 | 3.4000e-004 | 5.2600e-003   | 3.3000e-004  | 5.5900e-003 | 1.5200e-003    | 3.2000e-004   | 1.8400e-003 | 0.0000   | 33.7334   | 33.7334   | 2.2200e-003 | 0.0000 | 33.7888 |
| Vendor   | 3.5800e-003 | 0.1153      | 0.0311 | 3.1000e-004 | 5.2300e-003   | 2.2000e-004  | 5.4400e-003 | 1.6200e-003    | 2.1000e-004   | 1.8200e-003 | 0.0000   | 30.0528   | 30.0528   | 1.8000e-003 | 0.0000 | 30.0977 |
| Worker   | 8.2700e-003 | 6.2000e-003 | 0.0714 | 2.2000e-004 | 0.0135        | 1.8000e-004  | 0.0137      | 3.7700e-003    | 1.7000e-004   | 3.9300e-003 | 0.0000   | 19.5602   | 19.5602   | 5.4000e-004 | 0.0000 | 19.5736 |
| Total    | 0.0154      | 0.2279      | 0.1304 | 8.7000e-004 | 0.0240        | 7.3000e-004  | 0.0247      | 6.9100e-003    | 7.0000e-004   | 7.5900e-003 | 0.0000   | 83.3463   | 83.3463   | 4.5600e-003 | 0.0000 | 83.4601 |

**3.3 Grading - 2022**

**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 |         |        |        |             | 0.0202        | 0.0000       | 0.0202      | 9.6100e-003    | 0.0000        | 9.6100e-003 | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0156  | 0.1411 | 0.1643 | 2.6000e-004 |               | 7.4300e-003  | 7.4300e-003 |                | 7.1000e-003   | 7.1000e-003 | 0.0000   | 22.9099   | 22.9099   | 4.2300e-003 | 0.0000 | 23.0156 |
| Total         | 0.0156  | 0.1411 | 0.1643 | 2.6000e-004 | 0.0202        | 7.4300e-003  | 0.0276      | 9.6100e-003    | 7.1000e-003   | 0.0167      | 0.0000   | 22.9099   | 22.9099   | 4.2300e-003 | 0.0000 | 23.0156 |

**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  | 0.0337      | 1.0229      | 0.2678 | 3.2900e-003 | 0.0773        | 3.1900e-003  | 0.0805      | 0.0212         | 3.0500e-003   | 0.0243      | 0.0000   | 324.3591  | 324.3591  | 0.0213      | 0.0000 | 324.8923 |
| Vendor   | 3.8500e-003 | 0.1238      | 0.0334 | 3.3000e-004 | 8.3100e-003   | 2.3000e-004  | 8.5500e-003 | 2.4000e-003    | 2.2000e-004   | 2.6200e-003 | 0.0000   | 32.2518   | 32.2518   | 1.9300e-003 | 0.0000 | 32.2999  |
| Worker   | 3.5500e-003 | 2.6600e-003 | 0.0307 | 9.0000e-005 | 9.6400e-003   | 8.0000e-005  | 9.7200e-003 | 2.5600e-003    | 7.0000e-005   | 2.6300e-003 | 0.0000   | 8.3966    | 8.3966    | 2.3000e-004 | 0.0000 | 8.4023   |
| Total    | 0.0411      | 1.1493      | 0.3319 | 3.7100e-003 | 0.0953        | 3.5000e-003  | 0.0988      | 0.0262         | 3.3400e-003   | 0.0295      | 0.0000   | 365.0075  | 365.0075  | 0.0235      | 0.0000 | 365.5945 |

**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 |         |        |        |             | 7.4900e-003   | 0.0000       | 7.4900e-003 | 3.5600e-003    | 0.0000        | 3.5600e-003 | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000  |
| Off-Road      | 0.0156  | 0.1411 | 0.1643 | 2.6000e-004 |               | 7.4300e-003  | 7.4300e-003 |                | 7.1000e-003   | 7.1000e-003 | 0.0000   | 22.9099   | 22.9099   | 4.2300e-003 | 0.0000 | 23.0156 |
| Total         | 0.0156  | 0.1411 | 0.1643 | 2.6000e-004 | 7.4900e-003   | 7.4300e-003  | 0.0149      | 3.5600e-003    | 7.1000e-003   | 0.0107      | 0.0000   | 22.9099   | 22.9099   | 4.2300e-003 | 0.0000 | 23.0156 |

**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  | 0.0337      | 1.0229 | 0.2678 | 3.2900e-003 | 0.0506        | 3.1900e-003  | 0.0538      | 0.0147         | 3.0500e-003   | 0.0177      | 0.0000   | 324.3591  | 324.3591  | 0.0213      | 0.0000 | 324.8923 |
| Vendor   | 3.8500e-003 | 0.1238 | 0.0334 | 3.3000e-004 | 5.6100e-003   | 2.3000e-004  | 5.8400e-003 | 1.7400e-003    | 2.2000e-004   | 1.9600e-003 | 0.0000   | 32.2518   | 32.2518   | 1.9300e-003 | 0.0000 | 32.2999  |

|        |             |             |        |             |             |             |             |             |             |             |        |          |          |             |        |          |
|--------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|----------|----------|-------------|--------|----------|
| Worker | 3.5500e-003 | 2.6600e-003 | 0.0307 | 9.0000e-005 | 5.8000e-003 | 8.0000e-005 | 5.8800e-003 | 1.6200e-003 | 7.0000e-005 | 1.6900e-003 | 0.0000 | 8.3966   | 8.3966   | 2.3000e-004 | 0.0000 | 8.4023   |
| Total  | 0.0411      | 1.1493      | 0.3319 | 3.7100e-003 | 0.0620      | 3.5000e-003 | 0.0655      | 0.0180      | 3.3400e-003 | 0.0214      | 0.0000 | 365.0075 | 365.0075 | 0.0235      | 0.0000 | 365.5945 |

### 3.4 Building Construction - 2022

#### 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 |        |        |             |               |              |            |                |               |             |          |           |           |        |        |         |
| Off-Road | 0.0601  | 0.6148 | 0.6259 | 1.0000e-003 |               | 0.0325       | 0.0325     |                | 0.0299        | 0.0299      | 0.0000   | 87.6292   | 87.6292   | 0.0283 | 0.0000 | 88.3378 |
| Total    | 0.0601  | 0.6148 | 0.6259 | 1.0000e-003 |               | 0.0325       | 0.0325     |                | 0.0299        | 0.0299      | 0.0000   | 87.6292   | 87.6292   | 0.0283 | 0.0000 | 88.3378 |

#### 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 |        |        |             |               |              |            |                |               |             |          |           |           |             |        |          |
| 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   | 0.0663  | 2.1331 | 0.5760 | 5.7300e-003 | 0.1433        | 4.0000e-003  | 0.1473     | 0.0414         | 3.8300e-003   | 0.0452      | 0.0000   | 555.8542  | 555.8542  | 0.0332      | 0.0000 | 556.6842 |
| Worker   | 0.1412  | 0.1059 | 1.2195 | 3.6900e-003 | 0.3835        | 3.0600e-003  | 0.3866     | 0.1019         | 2.8200e-003   | 0.1047      | 0.0000   | 333.9542  | 333.9542  | 9.2000e-003 | 0.0000 | 334.1841 |
| Total    | 0.2075  | 2.2390 | 1.7955 | 9.4200e-003 | 0.5268        | 7.0600e-003  | 0.5339     | 0.1432         | 6.6500e-003   | 0.1499      | 0.0000   | 889.8084  | 889.8084  | 0.0424      | 0.0000 | 890.8683 |
|          | MT/yr   |        |        |             |               |              |            |                |               |             |          |           |           |             |        |          |

#### 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 | 0.0601  | 0.6148 | 0.6259 | 1.0000e-003 |               | 0.0325       | 0.0325     |                | 0.0299        | 0.0299      | 0.0000   | 87.6291   | 87.6291   | 0.0283 | 0.0000 | 88.3377 |
| Total    | 0.0601  | 0.6148 | 0.6259 | 1.0000e-003 |               | 0.0325       | 0.0325     |                | 0.0299        | 0.0299      | 0.0000   | 87.6291   | 87.6291   | 0.0283 | 0.0000 | 88.3377 |

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   | 0.0663  | 2.1331 | 0.5760 | 5.7300e-003 | 0.0967        | 4.0000e-003  | 0.1007     | 0.0299         | 3.8300e-003   | 0.0337      | 0.0000   | 555.8542  | 555.8542  | 0.0332      | 0.0000 | 556.6642 |
| Worker   | 0.1412  | 0.1059 | 1.2195 | 3.6900e-003 | 0.2306        | 3.0600e-003  | 0.2337     | 0.0643         | 2.8200e-003   | 0.0672      | 0.0000   | 333.9542  | 333.9542  | 9.2000e-003 | 0.0000 | 334.1641 |
| Total    | 0.2075  | 2.2390 | 1.7955 | 9.4200e-003 | 0.3273        | 7.0600e-003  | 0.3343     | 0.0942         | 6.6500e-003   | 0.1009      | 0.0000   | 889.8084  | 889.8084  | 0.0424      | 0.0000 | 890.8683 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

|          |        |        |        |             |  |        |        |  |        |        |        |          |          |        |        |          |
|----------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|--------|--------|----------|
| Off-Road | 0.0822 | 0.8344 | 0.9226 | 1.4800e-003 |  | 0.0416 | 0.0416 |  | 0.0383 | 0.0383 | 0.0000 | 130.2710 | 130.2710 | 0.0421 | 0.0000 | 131.3243 |
| Total    | 0.0822 | 0.8344 | 0.9226 | 1.4800e-003 |  | 0.0416 | 0.0416 |  | 0.0383 | 0.0383 | 0.0000 | 130.2710 | 130.2710 | 0.0421 | 0.0000 | 131.3243 |

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   | 0.0731  | 2.3944 | 0.7677 | 8.2300e-003 | 0.2129        | 2.7900e-003  | 0.2157     | 0.0615         | 2.6700e-003   | 0.0641      | 0.0000   | 799.9867   | 799.9867   | 0.0436 | 0.0000 | 801.0764   |
| Worker   | 0.1973  | 0.1423 | 1.6661 | 5.2900e-003 | 0.5698        | 4.4200e-003  | 0.5742     | 0.1513         | 4.0700e-003   | 0.1564      | 0.0000   | 478.0045   | 478.0045   | 0.0123 | 0.0000 | 478.3122   |
| Total    | 0.2704  | 2.5367 | 2.4338 | 0.0135      | 0.7827        | 7.2100e-003  | 0.7900     | 0.2128         | 6.7400e-003   | 0.2195      | 0.0000   | 1,277.9912 | 1,277.9912 | 0.0559 | 0.0000 | 1,279.3886 |

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 | 0.0822  | 0.8344 | 0.9226 | 1.4800e-003 |               | 0.0416       | 0.0416     |                | 0.0383        | 0.0383      | 0.0000   | 130.2708  | 130.2708  | 0.0421 | 0.0000 | 131.3241 |
| Total    | 0.0822  | 0.8344 | 0.9226 | 1.4800e-003 |               | 0.0416       | 0.0416     |                | 0.0383        | 0.0383      | 0.0000   | 130.2708  | 130.2708  | 0.0421 | 0.0000 | 131.3241 |



| 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     |
| Vendor   | 0.0719  | 2.4037 | 0.7499 | 8.2600e-003 | 0.2146 | 2.7700e-003 | 0.2173 | 0.0619 | 2.6500e-003 | 0.0646 | 0.0000 | 802.9288   | 802.9288   | 0.0433 | 804.0108   |
| Worker   | 0.1883  | 0.1308 | 1.5635 | 5.1600e-003 | 0.5742 | 4.3900e-003 | 0.5786 | 0.1525 | 4.0400e-003 | 0.1566 | 0.0000 | 466.7465   | 466.7465   | 0.0114 | 467.0306   |
| Total    | 0.2602  | 2.5345 | 2.3134 | 0.0134      | 0.7888 | 7.1600e-003 | 0.7959 | 0.2144 | 6.6900e-003 | 0.2211 | 0.0000 | 1,269.6753 | 1,269.6753 | 0.0546 | 1,271.0414 |

**Mitigated Construction On-Site**

| Category | ROG     | NOx    | CO     | SO2         | Fugitive 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 |        |        |             |               |              |            |                |               |             |          |           |           |        |        |          |
| Off-Road | 0.0780  | 0.7826 | 0.9258 | 1.5000e-003 |               | 0.0370       | 0.0370     |                | 0.0340        | 0.0340      | 0.0000   | 131.3174  | 131.3174  | 0.0425 | 0.0000 | 132.3792 |
| Total    | 0.0780  | 0.7826 | 0.9258 | 1.5000e-003 |               | 0.0370       | 0.0370     |                | 0.0340        | 0.0340      | 0.0000   | 131.3174  | 131.3174  | 0.0425 | 0.0000 | 132.3792 |

**Mitigated Construction Off-Site**

| Category | ROG     | NOx    | CO     | SO2         | Fugitive 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   | 0.0719  | 2.4037 | 0.7499 | 8.2600e-003 | 0.1447        | 2.7700e-003  | 0.1475     | 0.0448         | 2.6500e-003   | 0.0474      | 0.0000   | 802.9288  | 802.9288  | 0.0433 | 0.0000 | 804.0108 |
| Worker   | 0.1883  | 0.1308 | 1.5635 | 5.1600e-003 | 0.3453        | 4.3900e-003  | 0.3497     | 0.0963         | 4.0400e-003   | 0.1004      | 0.0000   | 466.7465  | 466.7465  | 0.0114 | 0.0000 | 467.0306 |

|       |        |        |        |        |        |             |        |        |             |        |        |            |            |        |        |            |
|-------|--------|--------|--------|--------|--------|-------------|--------|--------|-------------|--------|--------|------------|------------|--------|--------|------------|
| Total | 0.2602 | 2.5345 | 2.3134 | 0.0134 | 0.4900 | 7.1600e-003 | 0.4971 | 0.1411 | 6.6900e-003 | 0.1478 | 0.0000 | 1,269.6753 | 1,269.6753 | 0.0546 | 0.0000 | 1,271.0414 |
|-------|--------|--------|--------|--------|--------|-------------|--------|--------|-------------|--------|--------|------------|------------|--------|--------|------------|

### 3.4 Building Construction - 2025

#### 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 |        |        |             |               |              |            |                |               |             |          |           |           |        |        |         |
| Off-Road | 0.0477  | 0.4742 | 0.6079 | 9.9000e-004 |               | 0.0209       | 0.0209     |                | 0.0192        | 0.0192      | 0.0000   | 86.7558   | 86.7558   | 0.0281 | 0.0000 | 87.4573 |
| Total    | 0.0477  | 0.4742 | 0.6079 | 9.9000e-004 |               | 0.0209       | 0.0209     |                | 0.0192        | 0.0192      | 0.0000   | 86.7558   | 86.7558   | 0.0281 | 0.0000 | 87.4573 |

#### 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 |        |        |             |               |              |            |                |               |             |          |           |           |             |        |          |
| 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   | 0.0463  | 1.5735 | 0.4824 | 5.4200e-003 | 0.1417        | 1.8000e-003  | 0.1435     | 0.0409         | 1.7200e-003   | 0.0426      | 0.0000   | 527.2893  | 527.2893  | 0.0282      | 0.0000 | 527.9934 |
| Worker   | 0.1182  | 0.0790 | 0.9581 | 3.2700e-003 | 0.3792        | 2.8400e-003  | 0.3820     | 0.1007         | 2.6100e-003   | 0.1033      | 0.0000   | 296.2615  | 296.2615  | 6.8400e-003 | 0.0000 | 296.4326 |
| Total    | 0.1645  | 1.6525 | 1.4405 | 8.6900e-003 | 0.5208        | 4.6400e-003  | 0.5255     | 0.1416         | 4.3300e-003   | 0.1459      | 0.0000   | 823.5508  | 823.5508  | 0.0350      | 0.0000 | 824.4259 |

#### 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 | 0.0477  | 0.4742 | 0.6079 | 9.9000e-004 |               | 0.0209       | 0.0209     |                | 0.0192        | 0.0192      | 0.0000   | 86.7557   | 86.7557   | 0.0281 | 0.0000 | 87.4572 |
| Total    | 0.0477  | 0.4742 | 0.6079 | 9.9000e-004 |               | 0.0209       | 0.0209     |                | 0.0192        | 0.0192      | 0.0000   | 86.7557   | 86.7557   | 0.0281 | 0.0000 | 87.4572 |

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   | 0.0463  | 1.5735 | 0.4824 | 5.4200e-003 | 0.0956        | 1.8000e-003  | 0.0974     | 0.0296         | 1.7200e-003   | 0.0313      | 0.0000   | 527.2893  | 527.2893  | 0.0282      | 0.0000 | 527.9934 |
| Worker   | 0.1182  | 0.0790 | 0.9381 | 3.2700e-003 | 0.2280        | 2.8400e-003  | 0.2308     | 0.0636         | 2.6100e-003   | 0.0662      | 0.0000   | 296.2615  | 296.2615  | 6.8400e-003 | 0.0000 | 296.4326 |
| Total    | 0.1645  | 1.6525 | 1.4405 | 8.6900e-003 | 0.3235        | 4.6400e-003  | 0.3282     | 0.0932         | 4.3300e-003   | 0.0975      | 0.0000   | 823.5508  | 823.5508  | 0.0350      | 0.0000 | 824.4259 |

3.5 Architectural Coating - 2025

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    |           |           |     |     |      |





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   | 7.2400e-003 | 0.2463      | 0.0755 | 8.5000e-004 | 0.0150        | 2.8000e-004  | 0.0152      | 4.6300e-003    | 2.7000e-004   | 4.9000e-003 | 0.0000   | 82.5282   | 82.5282   | 4.4100e-003 | 0.0000 | 82.6384 |
| Worker   | 4.5100e-003 | 3.0100e-003 | 0.0366 | 1.2000e-004 | 8.7000e-003   | 1.1000e-004  | 8.8100e-003 | 2.4300e-003    | 1.0000e-004   | 2.5300e-003 | 0.0000   | 11.3025   | 11.3025   | 2.6000e-004 | 0.0000 | 11.3090 |
| Total    | 0.0118      | 0.2493      | 0.1121 | 9.7000e-004 | 0.0237        | 3.9000e-004  | 0.0241      | 7.0600e-003    | 3.7000e-004   | 7.4300e-003 | 0.0000   | 93.8306   | 93.8306   | 4.6700e-003 | 0.0000 | 93.9473 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 0.2603  | 1.1882 | 2.6348 | 9.6700e-003 | 0.8210        | 7.6500e-003  | 0.8287     | 0.2200         | 7.1100e-003   | 0.2271      | 0.0000   | 896.3152  | 896.3152  | 0.0455 | 0.0000 | 897.4523 |
| Unmitigated | 0.2603  | 1.1882 | 2.6348 | 9.6700e-003 | 0.8210        | 7.6500e-003  | 0.8287     | 0.2200         | 7.1100e-003   | 0.2271      | 0.0000   | 896.3152  | 896.3152  | 0.0455 | 0.0000 | 897.4523 |

4.2 Trip Summary Information

|                                     |  |  | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|--|--|-------------------------|----------|----------|-------------|------------|
| Land Use                            |  |  | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments High Rise                |  |  | 1,048.32                | 1,048.32 | 1,048.32 | 1,887,480   | 1,887,480  |
| Enclosed Parking with Elevator      |  |  | 0.00                    | 0.00     | 0.00     |             |            |
| High Turnover (Sit Down Restaurant) |  |  | 318.44                  | 318.44   | 318.44   | 276,145     | 276,145    |
| Total                               |  |  | 1,366.76                | 1,366.76 | 1,366.76 | 2,163,625   | 2,163,625  |

### 4.3 Trip Type Information

|                                     | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments High Rise                | 5.57       | 5.57       | 5.57        | 40.00      | 19.00      | 41.00       | 86             | 11       | 3       |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| High Turnover (Sit Down Restaurant) | 5.57       | 5.57       | 5.57        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |

### 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise                | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.005239 | 0.000700 | 0.000841 |
| Enclosed Parking with Elevator      | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.005239 | 0.000700 | 0.000841 |
| High Turnover (Sit Down Restaurant) | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.005239 | 0.000700 | 0.000841 |

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

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

|                       |        |        |        |             |        |        |  |        |        |        |        |        |        |            |            |             |             |            |  |
|-----------------------|--------|--------|--------|-------------|--------|--------|--|--------|--------|--------|--------|--------|--------|------------|------------|-------------|-------------|------------|--|
| Electricity Mitigated |        |        |        |             | 0.0000 | 0.0000 |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 690.2102   | 690.2102   | 0.0163      | 3.3700e-003 | 691.6228   |  |
| Electricity           |        |        |        |             | 0.0000 | 0.0000 |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.322.2417 | 1.322.2417 | 0.0312      | 6.4600e-003 | 1.324.9478 |  |
| Unmitigated           |        |        |        |             |        |        |  |        |        |        |        |        |        |            |            |             |             |            |  |
| NaturalGas            | 0.0243 | 0.2128 | 0.1239 | 1.3300e-003 | 0.0168 | 0.0168 |  |        |        | 0.0168 | 0.0168 | 0.0000 | 0.0000 | 240.8886   | 240.8886   | 4.6200e-003 | 4.4200e-003 | 242.3201   |  |
| Mitigated             |        |        |        |             |        |        |  |        |        |        |        |        |        |            |            |             |             |            |  |
| NaturalGas            | 0.0243 | 0.2128 | 0.1239 | 1.3300e-003 | 0.0168 | 0.0168 |  |        |        | 0.0168 | 0.0168 | 0.0000 | 0.0000 | 240.8886   | 240.8886   | 4.6200e-003 | 4.4200e-003 | 242.3201   |  |
| Unmitigated           |        |        |        |             |        |        |  |        |        |        |        |        |        |            |            |             |             |            |  |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                                     | NaturalGas Use | ROG         | NOK    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------------------|----------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Land Use                            | kBTU/yr        | tons/yr     |        |        |             |               |              |             |                |               |             |          | MT/yr     |           |             |             |          |
| Apartments High Rise                | 2.87569e+006   | 0.0155      | 0.1325 | 0.0564 | 8.5000e-004 | 0.0107        | 0.0107       | 0.0107      | 0.0107         | 0.0107        | 0.0107      | 0.0000   | 153.4575  | 153.4575  | 2.9400e-003 | 2.8100e-003 | 154.3694 |
| Enclosed Parking with Elevator      | 0              | 0.0000      | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000      | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| High Turnover (Sit Down Restaurant) | 1.6384e+006    | 8.8300e-003 | 0.0803 | 0.0675 | 4.8000e-004 | 6.1000e-003   | 6.1000e-003  | 6.1000e-003 | 6.1000e-003    | 6.1000e-003   | 6.1000e-003 | 0.0000   | 87.4311   | 87.4311   | 1.6800e-003 | 1.6000e-003 | 87.9506  |
| Total                               |                | 0.0243      | 0.2128 | 0.1239 | 1.3300e-003 | 0.0168        | 0.0168       | 0.0168      | 0.0168         | 0.0168        | 0.0168      | 0.0000   | 240.8886  | 240.8886  | 4.6200e-003 | 4.4100e-003 | 242.3201 |

### Mitigated

|                                     | NaturalGas Use | ROG         | NOK    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------------------|----------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Land Use                            | kBTU/yr        | tons/yr     |        |        |             |               |              |             |                |               |             |          | MT/yr     |           |             |             |          |
| Apartments High Rise                | 2.87569e+006   | 0.0155      | 0.1325 | 0.0564 | 8.5000e-004 | 0.0107        | 0.0107       | 0.0107      | 0.0107         | 0.0107        | 0.0107      | 0.0000   | 153.4575  | 153.4575  | 2.9400e-003 | 2.8100e-003 | 154.3694 |
| Enclosed Parking with Elevator      | 0              | 0.0000      | 0.0000 | 0.0000 | 0.0000      | 0.0000        | 0.0000       | 0.0000      | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| High Turnover (Sit Down Restaurant) | 1.6384e+006    | 8.8300e-003 | 0.0803 | 0.0675 | 4.8000e-004 | 6.1000e-003   | 6.1000e-003  | 6.1000e-003 | 6.1000e-003    | 6.1000e-003   | 6.1000e-003 | 0.0000   | 87.4311   | 87.4311   | 1.6800e-003 | 1.6000e-003 | 87.9506  |

|       |  |        |        |        |             |  |        |        |  |        |        |        |          |          |             |             |          |
|-------|--|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|-------------|-------------|----------|
| Total |  | 0.0243 | 0.2128 | 0.1239 | 1.3300e-003 |  | 0.0168 | 0.0168 |  | 0.0168 | 0.0168 | 0.0000 | 240.8886 | 240.8886 | 4.6200e-003 | 4.4100e-003 | 242.3201 |
|-------|--|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|----------|----------|-------------|-------------|----------|

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                                     | Electricity Use | Total CO2  | CH4         | N2O         | CO2e       |
|-------------------------------------|-----------------|------------|-------------|-------------|------------|
| Land Use                            | kWh/yr          | MT/yr      |             |             |            |
| Apartments High Rise                | 1.23554e+06     | 688.1510   | 0.0163      | 3.3600e-003 | 689.5594   |
| Enclosed Parking with Elevator      | 825088          | 459.5423   | 0.0109      | 2.2500e-003 | 460.4828   |
| High Turnover (Sit Down Restaurant) | 313394          | 174.5484   | 4.1200e-003 | 8.5000e-004 | 174.9056   |
| Total                               |                 | 1,322.2417 | 0.0312      | 6.4600e-003 | 1,324.9478 |

#### Mitigated

|                                     | Electricity Use | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------------------|-----------------|-----------|-------------|-------------|----------|
| Land Use                            | kWh/yr          | MT/yr     |             |             |          |
| Apartments High Rise                | 644954          | 359.2148  | 8.4800e-003 | 1.7600e-003 | 359.9500 |
| Enclosed Paking with Elevator       | 430696          | 239.8811  | 5.6700e-003 | 1.1700e-003 | 240.3720 |
| High Turnover (Sit Down Restaurant) | 163592          | 91.1143   | 2.1500e-003 | 4.5000e-004 | 91.3007  |
| Total                               |                 | 690.2102  | 0.0163      | 3.3800e-003 | 691.6228 |

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |
| Unmitigated | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |

### 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 | 0.1088  |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      |        | 0.0000 |
| Consumer Products     | 1.2304  |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      |        | 0.0000 |
| Hearth                | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      |        | 0.0000 |
| Landscaping           | 0.0969  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |
| Total                 | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |

#### 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 | 0.1088  |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000 |
| Consumer Products     | 1.2304  |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000 |
| Heath                 | 0.0000  | 0.0000 | 0.0000 | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000 | 0.0000 |
| Landscaping           | 0.0969  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |
| Total                 | 1.4361  | 0.0371 | 3.2191 | 1.7000e-004 |               | 0.0179       | 0.0179     |                | 0.0179        | 0.0179      | 0.0000   | 5.2647    | 5.2647    | 5.0600e-003 | 0.0000 | 5.3911 |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 250.3366  | 0.7384 | 0.0185 | 274.3047 |
| Unmitigated | 250.3366  | 0.7384 | 0.0185 | 274.3047 |

### 7.2 Water by Land Use

Unmitigated

|                                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O         | CO2e     |
|-------------------------------------|--------------------|-----------|--------|-------------|----------|
| Land Use                            | Mgal               | MT/yr     |        |             |          |
| Apartments High Rise                | 20,3281 / 12,8155  | 233.1726  | 0.6677 | 0.0168      | 254.8572 |
| Enclosed Parking with Elevator      | 0 / 0              | 0.0000    | 0.0000 | 0.0000      | 0.0000   |
| High Turnover (Sit Down Restaurant) | 2,15509 / 0.137559 | 17.1640   | 0.0706 | 1.7400e-003 | 19.4475  |
| Total                               |                    | 250.3366  | 0.7384 | 0.0185      | 274.3047 |

Mitigated

|                                     | Indoor/Outdoor Use | Total CO2 | CH4    | N2O         | CO2e     |
|-------------------------------------|--------------------|-----------|--------|-------------|----------|
| Land Use                            | Mgal               | MT/yr     |        |             |          |
| Apartments High Rise                | 20,3281 / 12,8155  | 233.1726  | 0.6677 | 0.0168      | 254.8572 |
| Enclosed Parking with Elevator      | 0 / 0              | 0.0000    | 0.0000 | 0.0000      | 0.0000   |
| High Turnover (Sit Down Restaurant) | 2,15509 / 0.137559 | 17.1640   | 0.0706 | 1.7400e-003 | 19.4475  |
| Total                               |                    | 250.3366  | 0.7384 | 0.0185      | 274.3047 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year



|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
|             | MT/yr     |        |        |          |
| Mitigated   | 11.1082   | 0.6565 | 0.0000 | 27.5200  |
| Unmitigated | 46.2840   | 2.7353 | 0.0000 | 114.6666 |

## 8.2 Waste by Land Use

### Unmitigated

|                                     | Waste Disposed | Total CO2 | CH4    | N2O    | CO2e     |
|-------------------------------------|----------------|-----------|--------|--------|----------|
| Land Use                            | tons           | MT/yr     |        |        |          |
| Apartments High Rise                | 143.52         | 29.1333   | 1.7217 | 0.0000 | 72.1764  |
| Enclosed Parking with Elevator      | 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000   |
| High Turnover (Sit Down Restaurant) | 84.49          | 17.1507   | 1.0136 | 0.0000 | 42.4902  |
| Total                               |                | 46.2840   | 2.7353 | 0.0000 | 114.6666 |

### Mitigated

|          | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|----------------|-----------|-----|-----|------|
| Land Use | tons           | MT/yr     |     |     |      |



1201 South Grand Avenue Future - Los Angeles-South Coast County, Winter

**1201 South Grand Avenue Future**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 352.00 | Space         | 0.00        | 140,800.00         | 0          |
| High Turnover (Sit Down Restaurant) | 7.10   | 1000sqft      | 0.00        | 7,100.00           | 0          |
| Apartment High Rise                 | 312.00 | Dwelling Unit | 0.58        | 330,876.00         | 703        |

**1.2 Other Project Characteristics**

|                         |                                         |                         |       |                           |       |
|-------------------------|-----------------------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Urban                                   | Wind Speed (m/s)        | 2.2   | Precipitation Freq (Days) | 33    |
| Climate Zone            | 11                                      |                         |       | Operational Year          | 2025  |
| Utility Company         | Los Angeles Department of Water & Power |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 1227.89                                 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

Project Characteristics -

Land Use - Developer information

Construction Phase - Developer information

Trips and VMT - Demolition assumes 14 ton capacity per demolition haul truck; grading assumes 16 CY capacity per haul truck.

Demolition - 44,769 sf of buildings @ 12' height = 19,897 CY @400 lb/CY = 3,969 tons

Grading - Assumes 3x passover for grading phase

Vehicle Trips - Raju Associates, Inc. Transportation Assessment Study for the 1201-1215 S. Grand Avenue and 410 West 12th Street Mixed-Use Project, April

Woodstoves - Developer information

Energy Use -

Energy Mitigation - Under SB 100, LADWP is required to generate electricity that increases renewable energy resources to 50 percent by 2026 and 60 percent by 2030. Energy Mitigation - AB 341 (2011) amended the regulation to call for at least 75 percent of solid waste generated to be reduced, recycled, or composted by 2020, and 80 percent by 2030.

| Table Name             | Column Name                    | Default Value | New Value  |
|------------------------|--------------------------------|---------------|------------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 46         |
| tblConstructionPhase   | NumDays                        | 5.00          | 44.00      |
| tblConstructionPhase   | NumDays                        | 100.00        | 870.00     |
| tblConstructionPhase   | NumDays                        | 10.00         | 41.00      |
| tblConstructionPhase   | NumDays                        | 2.00          | 44.00      |
| tblFireplaces          | NumberGas                      | 265.20        | 0.00       |
| tblFireplaces          | NumberNoFireplace              | 31.20         | 312.00     |
| tblFireplaces          | NumberWood                     | 15.60         | 0.00       |
| tblGrading             | AcresOfGrading                 | 0.00          | 1.75       |
| tblGrading             | MaterialExported               | 0.00          | 48,000.00  |
| tblLandUse             | LandUseSquareFeet              | 312,000.00    | 330,876.00 |
| tblLandUse             | LotAcreage                     | 3.17          | 0.00       |
| tblLandUse             | LotAcreage                     | 0.16          | 0.00       |
| tblLandUse             | LotAcreage                     | 5.03          | 0.58       |
| tblLandUse             | Population                     | 892.00        | 703.00     |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripLength              | 20.00         | 30.00      |
| tblTripsAndVMT         | HaulingTripNumber              | 432.00        | 624.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 60.00      |
| tblTripsAndVMT         | VendorTripNumber               | 58.00         | 260.00     |
| tblTripsAndVMT         | VendorTripNumber               | 0.00          | 160.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 100.00     |
| tblTripsAndVMT         | WorkerTripNumber               | 10.00         | 40.00      |
| tblTripsAndVMT         | WorkerTripNumber               | 287.00        | 400.00     |

|                |                    |        |       |
|----------------|--------------------|--------|-------|
| tbTripsAndVMT  | WorkerTripNumber   | 57.00  | 60.00 |
| tbVehicleTrips | CC_TL              | 8.40   | 5.57  |
| tbVehicleTrips | CNW_TL             | 6.90   | 5.57  |
| tbVehicleTrips | CW_TL              | 16.60  | 5.57  |
| tbVehicleTrips | HO_TL              | 8.70   | 5.57  |
| tbVehicleTrips | HO_TTP             | 40.60  | 41.00 |
| tbVehicleTrips | HS_TL              | 5.90   | 5.57  |
| tbVehicleTrips | HS_TTP             | 19.20  | 19.00 |
| tbVehicleTrips | HW_TL              | 14.70  | 5.57  |
| tbVehicleTrips | HW_TTP             | 40.20  | 40.00 |
| tbVehicleTrips | ST_TR              | 4.98   | 3.36  |
| tbVehicleTrips | ST_TR              | 158.37 | 44.85 |
| tbVehicleTrips | SU_TR              | 3.65   | 3.36  |
| tbVehicleTrips | SU_TR              | 131.84 | 44.85 |
| tbVehicleTrips | WD_TR              | 4.20   | 3.36  |
| tbVehicleTrips | WD_TR              | 127.15 | 44.85 |
| tbWoodstoves   | NumberCatalytic    | 15.60  | 0.00  |
| tbWoodstoves   | NumberNoncatalytic | 15.60  | 0.00  |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|      | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2022 | 3.2565 | 57.6854 | 27.6297 | 0.1795 | 6.1357        | 0.4976       | 6.5892     | 1.6650         | 0.4756        | 2.1217      | 0.0000   | 19,287.968 | 19,287.968 | 1.4066 | 0.0000 | 19,323.133 |
|      |        |         |         |        |               |              |            |                |               |             |          | 5          | 5          |        |        | 5          |
| 2023 | 2.8985 | 25.6163 | 25.7079 | 0.1137 | 6.1357        | 0.3764       | 6.5121     | 1.6650         | 0.3471        | 2.0121      | 0.0000   | 11,766.765 | 11,766.765 | 0.8410 | 0.0000 | 11,787.790 |
|      |        |         |         |        |               |              |            |                |               |             |          | 2          | 2          |        |        | 5          |

|         |         |         |         |        |        |        |        |        |        |        |        |            |            |        |        |            |
|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|------------|
| 2024    | 2.7609  | 25.0124 | 24.6313 | 0.1122 | 6.1357 | 0.3376 | 6.4734 | 1.6651 | 0.3114 | 1.9765 | 0.0000 | 11,617.583 | 11,617.583 | 0.8268 | 0.0000 | 11,638.252 |
|         |         |         |         |        |        |        |        |        |        |        |        | 3          | 3          |        |        | 5          |
| 2025    | 52.8043 | 36.5875 | 30.5879 | 0.1568 | 7.8309 | 0.3650 | 8.1958 | 2.1379 | 0.3411 | 2.4790 | 0.0000 | 16,341.455 | 16,341.455 | 1.0687 | 0.0000 | 16,368.173 |
|         |         |         |         |        |        |        |        |        |        |        |        | 1          | 1          |        |        | 2          |
| Maximum | 52.8043 | 57.6854 | 30.5879 | 0.1795 | 7.8309 | 0.4976 | 8.1958 | 2.1379 | 0.4756 | 2.4790 | 0.0000 | 19,287.968 | 19,287.968 | 1.4066 | 0.0000 | 19,323.133 |
|         |         |         |         |        |        |        |        |        |        |        |        | 5          | 5          |        |        | 5          |

Mitigated Construction

|      | ROG    | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-----|-----|------|
| Year | lb/day |     |    |     |               |              |            |                |               |             | lb/day   |          |           |     |     |      |

|         |         |         |         |        |        |        |        |        |        |        |        |            |            |        |        |            |
|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|--------|--------|------------|
| 2022    | 3.2565  | 57.6854 | 27.6297 | 0.1795 | 3.8021 | 0.4976 | 4.2556 | 1.0922 | 0.4756 | 1.5112 | 0.0000 | 19,287.968 | 19,287.968 | 1.4066 | 0.0000 | 19,323.133 |
|         |         |         |         |        |        |        |        |        |        |        |        | 5          | 5          |        |        | 5          |
| 2023    | 2.8985  | 25.6163 | 25.7079 | 0.1137 | 3.8021 | 0.3764 | 4.1785 | 1.0923 | 0.3471 | 1.4393 | 0.0000 | 11,766.765 | 11,766.765 | 0.8410 | 0.0000 | 11,787.790 |
|         |         |         |         |        |        |        |        |        |        |        |        | 2          | 2          |        |        | 5          |
| 2024    | 2.7609  | 25.0124 | 24.6313 | 0.1122 | 3.8022 | 0.3376 | 4.1398 | 1.0923 | 0.3114 | 1.4037 | 0.0000 | 11,617.583 | 11,617.583 | 0.8268 | 0.0000 | 11,638.252 |
|         |         |         |         |        |        |        |        |        |        |        |        | 3          | 3          |        |        | 5          |
| 2025    | 52.8043 | 36.5875 | 30.5879 | 0.1568 | 4.8934 | 0.3650 | 5.2584 | 1.4169 | 0.3411 | 1.7580 | 0.0000 | 16,341.455 | 16,341.455 | 1.0687 | 0.0000 | 16,368.173 |
|         |         |         |         |        |        |        |        |        |        |        |        | 1          | 1          |        |        | 2          |
| Maximum | 52.8043 | 57.6854 | 30.5879 | 0.1795 | 4.8934 | 0.4976 | 5.2584 | 1.4169 | 0.4756 | 1.7580 | 0.0000 | 19,287.968 | 19,287.968 | 1.4066 | 0.0000 | 19,323.133 |
|         |         |         |         |        |        |        |        |        |        |        |        | 5          | 5          |        |        | 5          |

|                   | ROG  | NOx  | CO   | SO2  | 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 | 37.88         | 0.00         | 35.79      | 34.20          | 0.00          | 28.84       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

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   | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 | 0.1428 | 0.1428 | 0.1428 | 0.1428 | 0.0000 | 46.4269    | 46.4269    | 0.0446     | 0.0000 | 47.5416    |
| Energy | 0.1334 | 1.1661 | 0.6786  | 7.2700e-003 | 0.0922 | 0.0922 | 0.0922 | 0.0922 | 0.0922 | 1.454.9819 | 1.454.9819 | 0.0279     | 0.0267 | 1.463.6281 |
| Mobile | 1.4783 | 6.4302 | 14.3876 | 0.0522      | 4.5998 | 0.0423 | 4.6421 | 1.2307 | 0.0393 | 5.340.2859 | 5.340.2859 | 0.2786     |        | 5.347.2508 |
| Total  | 9.7249 | 7.8929 | 40.8188 | 0.0609      | 4.5998 | 0.2773 | 4.8770 | 1.2307 | 0.2742 | 1.5049     | 0.0000     | 6,841.6946 | 0.3511 | 6,858.4205 |

### Mitigated Operational

| Category | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|----------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
|          | lb/day |        |         |             |               |              |            |                |               |             |          |            |            |        |        |            |
| Area     | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269    | 46.4269    | 0.0446 | 0.0000 | 47.5416    |
| Energy   | 0.1334 | 1.1661 | 0.6786  | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Mobile   | 1.4783 | 6.4302 | 14.3876 | 0.0522      | 4.5998        | 0.0423       | 4.6421     | 1.2307         | 0.0393        | 1.2700      |          | 5,340.2859 | 5,340.2859 | 0.2786 |        | 5,347.2508 |
| Total    | 9.7249 | 7.8929 | 40.8188 | 0.0609      | 4.5998        | 0.2773       | 4.8770     | 1.2307         | 0.2742        | 1.5049      | 0.0000   | 6,841.6946 | 6,841.6946 | 0.3511 | 0.0267 | 6,858.4205 |

|                   | ROG  | NOx  | CO   | SO2  | 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            | Demolition            | Demolition            | 1/3/2022   | 2/28/2022 | 5             | 41       |                   |
| 2            | Grading               | Grading               | 3/1/2022   | 4/29/2022 | 5             | 44       |                   |
| 3            | Building Construction | Building Construction | 5/2/2022   | 8/31/2025 | 5             | 870      |                   |

|   |                       |                       |          |           |   |    |
|---|-----------------------|-----------------------|----------|-----------|---|----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2025 | 7/31/2025 | 5 | 44 |
|---|-----------------------|-----------------------|----------|-----------|---|----|

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.75

Acres of Paving: 0

Residential Indoor: 670,024; Residential Outdoor: 223,341; Non-Residential Indoor: 10,650; Non-Residential Outdoor: 3,550; Striped Parking Area:

OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 100.00             | 60.00              | 624.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 40.00              | 60.00              | 6,000.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 400.00             | 260.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 60.00              | 160.00             | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

3.1 Mitigation Measures Construction

Replace Ground Cover



Water Exposed Area  
Clean Paved Roads

3.2 Demolition - 2022

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 |        |        |        |        | 2.2793        | 0.0000       | 2.2793     | 0.3451         | 0.0000        | 0.3451      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |               | 0.3375       | 0.3375     |                | 0.3225        | 0.3225      |          | 1,147.9025 | 1,147.9025 | 0.2119 |     | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 2.2793        | 0.3375       | 2.6168     | 0.3451         | 0.3225        | 0.6676      |          | 1,147.9025 | 1,147.9025 | 0.2119 |     | 1,153.2001 |

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  | 0.1727 | 5.0926  | 1.3890 | 0.0166 | 0.3990        | 0.0163       | 0.4153     | 0.1094         | 0.0156        | 0.1249      |          | 1,800.9815 | 1,800.9815 | 0.1209 |     | 1,804.0044 |
| Vendor   | 0.1797 | 5.5248  | 1.5946 | 0.0149 | 0.3841        | 0.0108       | 0.3949     | 0.1106         | 0.0103        | 0.1209      |          | 1,589.8217 | 1,589.8217 | 0.0999 |     | 1,592.3196 |
| Worker   | 0.4478 | 0.2945  | 3.3918 | 0.0104 | 1.1178        | 8.7500e-003  | 1.1265     | 0.2964         | 8.0600e-003   | 0.3045      |          | 1,034.5695 | 1,034.5695 | 0.0285 |     | 1,035.2816 |
| Total    | 0.8003 | 10.9119 | 6.3754 | 0.0418 | 1.9009        | 0.0358       | 1.9367     | 0.5164         | 0.0339        | 0.5503      |          | 4,425.3727 | 4,425.3727 | 0.2493 |     | 4,431.6056 |

Mitigated Construction On-Site



|               |        |        |        |        |        |        |        |        |        |        |  |  |            |            |        |            |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|------------|------------|--------|------------|
| Fugitive Dust |        |        |        |        | 0.9183 | 0.0000 | 0.9183 | 0.4370 | 0.0000 | 0.4370 |  |  |            | 0.0000     |        | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |        | 0.3375 | 0.3375 |        | 0.3225 | 0.3225 |  |  | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 0.9183 | 0.3375 | 1.2558 | 0.4370 | 0.3225 | 0.7596 |  |  | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |

### 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 |         |         |             |               |              |            |                |               |             |          |            |            |        |     |            |
| Hauling  | 1.5474 | 45.6290 | 12.4454 | 0.1485      | 3.5753        | 0.1459       | 3.7211     | 0.9799         | 0.1395        | 1.1195      |          | 16,136.416 | 16,136.416 | 1.0834 |     | 16,163.501 |
| Vendor   | 0.1797 | 5.5248  | 1.5946  | 0.0149      | 0.3841        | 0.0108       | 0.3949     | 0.1106         | 0.0103        | 0.1209      |          | 1,589.8217 | 1,589.8217 | 0.0999 |     | 1,592.3196 |
| Worker   | 0.1791 | 0.1178  | 1.3567  | 4.1500e-003 | 0.4471        | 3.5000e-003  | 0.4506     | 0.1186         | 3.2200e-003   | 0.1218      |          | 413.8278   | 413.8278   | 0.0114 |     | 414.1127   |
| Total    | 1.9062 | 51.2716 | 15.3967 | 0.1675      | 4.4065        | 0.1601       | 4.5666     | 1.2091         | 0.1530        | 1.3622      |          | 18,140.066 | 18,140.066 | 1.1947 |     | 18,169.933 |

### 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 |        |        |        |               |              |            |                |               |             |          |           |            |            |        |            |
| Fugitive Dust |        |        |        |        | 0.3402        | 0.0000       | 0.3402     | 0.1619         | 0.0000        | 0.1619      |          |           | 0.0000     |            |        | 0.0000     |
| Off-Road      | 0.7094 | 6.4138 | 7.4693 | 0.0120 |               | 0.3375       | 0.3375     |                | 0.3225        | 0.3225      | 0.0000   |           | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |
| Total         | 0.7094 | 6.4138 | 7.4693 | 0.0120 | 0.3402        | 0.3375       | 0.6778     | 0.1619         | 0.3225        | 0.4845      | 0.0000   |           | 1,147.9025 | 1,147.9025 | 0.2119 | 1,153.2001 |



| 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   | 0.7789 | 23.9406 | 6.9100  | 0.0644 | 1.6646 | 0.0466 | 1.7112 | 0.4793 | 0.0446 | 0.5238 | 6,889.2273  | 6,889.2273  | 0.4330 | 6,900.0515  |
| Worker   | 1.7914 | 1.1782  | 13.5671 | 0.0415 | 4.4711 | 0.0350 | 4.5061 | 1.1858 | 0.0322 | 1.2180 | 4,138.2778  | 4,138.2778  | 0.1140 | 4,141.1265  |
| Total    | 2.5702 | 25.1188 | 20.4771 | 0.1059 | 6.1357 | 0.0816 | 6.2173 | 1.6650 | 0.0768 | 1.7418 | 11,027.5051 | 11,027.5051 | 0.5469 | 11,041.1780 |

Mitigated Construction On-Site

| Category | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Off-Road | 0.6863 | 7.0258 | 7.1527 | 0.0114 |               | 0.3719       | 0.3719     |                | 0.3422        | 0.3422      | 0.0000   | 1,103.9393 | 1,103.9393 | 0.3570 |     | 1,112.8652 |
| Total    | 0.6863 | 7.0258 | 7.1527 | 0.0114 |               | 0.3719       | 0.3719     |                | 0.3422        | 0.3422      | 0.0000   | 1,103.9393 | 1,103.9393 | 0.3570 |     | 1,112.8652 |

Mitigated Construction Off-Site

| Category | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2 | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|-----|------------|
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000     | 0.0000     | 0.0000    | 0.0000 |     | 0.0000     |
| Vendor   | 0.7789 | 23.9406 | 6.9100  | 0.0644 | 1.1191        | 0.0466       | 1.1657     | 0.3454         | 0.0446        | 0.3899      | 6,889.2273 | 6,889.2273 | 0.4330    |        |     | 6,900.0515 |
| Worker   | 1.7914 | 1.1782  | 13.5671 | 0.0415 | 2.6830        | 0.0350       | 2.7180     | 0.7469         | 0.0322        | 0.7791      | 4,138.2778 | 4,138.2778 | 0.1140    |        |     | 4,141.1265 |

|       |        |         |         |        |        |        |        |        |        |        |  |            |            |        |  |            |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Total | 2.5702 | 25.1188 | 20.4771 | 0.1059 | 3.8021 | 0.0816 | 3.8837 | 1.0922 | 0.0768 | 1.1690 |  | 11,027.505 | 11,027.505 | 0.5469 |  | 11,041.178 |
|       |        |         |         |        |        |        |        |        |        |        |  | 1          | 1          |        |  | 0          |

### 3.4 Building Construction - 2023

#### Unmitigated Construction On-Site

|          | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |        |        |               |              |            |                |               |             |          |            |            |        |     |            |
| Off-Road | 0.6322 | 6.4186 | 7.0970 | 0.0114 |               | 0.3203       | 0.3203     |                | 0.2946        | 0.2946      |          | 1,104.6089 | 1,104.6089 | 0.3573 |     | 1,113.5402 |
| Total    | 0.6322 | 6.4186 | 7.0970 | 0.0114 |               | 0.3203       | 0.3203     |                | 0.2946        | 0.2946      |          | 1,104.6089 | 1,104.6089 | 0.3573 |     | 1,113.5402 |

#### 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 |         |         |        |               |              |            |                |               |             |          |            |            |        |     |            |
| 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   | 0.5786 | 18.1321 | 6.1402  | 0.0623 | 1.6646        | 0.0221       | 1.6868     | 0.4793         | 0.0212        | 0.5004      |          | 6,675.2740 | 6,675.2740 | 0.3812 |     | 6,684.8030 |
| Worker   | 1.6877 | 1.0656  | 12.4707 | 0.0400 | 4.4711        | 0.0340       | 4.5051     | 1.1858         | 0.0313        | 1.2171      |          | 3,986.8823 | 3,986.8823 | 0.1026 |     | 3,989.4473 |
| Total    | 2.2663 | 19.1976 | 18.6109 | 0.1023 | 6.1357        | 0.0561       | 6.1918     | 1.6650         | 0.0525        | 1.7175      |          | 10,662.156 | 10,662.156 | 0.4838 |     | 10,674.250 |

#### Mitigated Construction On-Site



|          |        |        |        |        |  |        |        |  |        |        |  |            |            |        |  |            |
|----------|--------|--------|--------|--------|--|--------|--------|--|--------|--------|--|------------|------------|--------|--|------------|
| Off-Road | 0.5950 | 5.9739 | 7.0675 | 0.0114 |  | 0.2824 | 0.2824 |  | 0.2598 | 0.2598 |  | 1,104.9834 | 1,104.9834 | 0.3574 |  | 1,113.9177 |
| Total    | 0.5950 | 5.9739 | 7.0675 | 0.0114 |  | 0.2824 | 0.2824 |  | 0.2598 | 0.2598 |  | 1,104.9834 | 1,104.9834 | 0.3574 |  | 1,113.9177 |

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 | MBio- 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   | 0.5644 | 18.0670 | 5.9540  | 0.0621 | 1.6647        | 0.0217       | 1.6864     | 0.4793         | 0.0208        | 0.5001      |          | 6,649.3848  | 6,649.3848  | 0.3754 |     | 6,658.7694  |
| Worker   | 1.6015 | 0.9715  | 11.6097 | 0.0388 | 4.4711        | 0.0335       | 4.5046     | 1.1868         | 0.0309        | 1.2166      |          | 3,863.2151  | 3,863.2151  | 0.0940 |     | 3,865.5654  |
| Total    | 2.1658 | 19.0385 | 17.5637 | 0.1008 | 6.1357        | 0.0553       | 6.1910     | 1.6651         | 0.0516        | 1.7167      |          | 10,512.6000 | 10,512.6000 | 0.4694 |     | 10,524.3348 |

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 | MBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Off-Road | 0.5950 | 5.9739 | 7.0675 | 0.0114 |               | 0.2824       | 0.2824     |                | 0.2598        | 0.2598      | 0.0000   | 1,104.9834 | 1,104.9834 | 0.3574 |     | 1,113.9177 |
| Total    | 0.5950 | 5.9739 | 7.0675 | 0.0114 |               | 0.2824       | 0.2824     |                | 0.2598        | 0.2598      | 0.0000   | 1,104.9834 | 1,104.9834 | 0.3574 |     | 1,113.9177 |





| 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   | 0.5500 | 17.9140 | 5.8020  | 0.0617 | 1.6647 | 0.0213 | 1.6860 | 0.4793 | 0.0204 | 0.4997 | 6,613.7305 | 6,613.7305 | 0.3697 | 6,622.9739 |
| Worker   | 1.5255 | 0.8887  | 10.7723 | 0.0372 | 4.4711 | 0.0328 | 4.5039 | 1.1858 | 0.0302 | 1.2160 | 3,713.6674 | 3,713.6674 | 0.0857 | 3,715.8096 |
| Total    | 2.0754 | 18.8027 | 16.5743 | 0.0989 | 6.1358 | 0.0542 | 6.1899 | 1.6651 | 0.0506 | 1.7157 | 10,327.397 | 10,327.397 | 0.4554 | 10,338.783 |

Mitigated Construction On-Site

| Category | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|----------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Off-Road | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      | 0.0000   | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |
| Total    | 0.5510 | 5.4820 | 7.0282 | 0.0114 |               | 0.2413       | 0.2413     |                | 0.2220        | 0.2220      | 0.0000   | 1,105.5711 | 1,105.5711 | 0.3576 |     | 1,114.5102 |

Mitigated Construction Off-Site

| Category | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2 | CH4    | N2O | CO2e       |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|-----|------------|
| Hauling  | 0.0000 | 0.0000  | 0.0000  | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000     | 0.0000     | 0.0000    | 0.0000 |     | 0.0000     |
| Vendor   | 0.5500 | 17.9140 | 5.8020  | 0.0617 | 1.1192        | 0.0213       | 1.1405     | 0.3454         | 0.0204        | 0.3658      | 6,613.7305 | 6,613.7305 | 0.3697    |        |     | 6,622.9739 |
| Worker   | 1.5255 | 0.8887  | 10.7723 | 0.0372 | 2.6830        | 0.0328       | 2.7159     | 0.7469         | 0.0302        | 0.7771      | 3,713.6674 | 3,713.6674 | 0.0857    |        |     | 3,715.8096 |

|       |        |         |         |        |        |        |        |        |        |        |  |             |             |        |  |             |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|
| Total | 2.0754 | 18.8027 | 16.5743 | 0.0989 | 3.8022 | 0.0542 | 3.8564 | 1.0923 | 0.0506 | 1.1429 |  | 10,327.3979 | 10,327.3979 | 0.4554 |  | 10,338.7835 |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|-------------|-------------|--------|--|-------------|

### 3.5 Architectural Coating - 2025

#### 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  |        |        |             |               |              |            |                |               |             |          |           |           |        |     |          |
| Archit. Coating | 49.4397 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road        | 0.1709  | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |
| Total           | 49.6106 | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      |          | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |

#### 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 |         |        |             |               |              |            |                |               |             |          |            |            |        |     |            |
| 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     |
| Vendor   | 0.3384 | 11.0240 | 3.5705 | 0.0380      | 1.0244        | 0.0131       | 1.0376     | 0.2950         | 0.0125        | 0.3075      |          | 4,069.9880 | 4,069.9880 | 0.2275 |     | 4,075.6763 |
| Worker   | 0.2288 | 0.1333  | 1.6159 | 5.5900e-003 | 0.6707        | 4.9200e-003  | 0.6756     | 0.1779         | 4.5300e-003   | 0.1824      |          | 557.0501   | 557.0501   | 0.0129 |     | 557.3714   |
| Total    | 0.5673 | 11.1573 | 5.1863 | 0.0435      | 1.6951        | 0.0180       | 1.7131     | 0.4728         | 0.0171        | 0.4899      |          | 4,627.0381 | 4,627.0381 | 0.2404 |     | 4,633.0477 |

#### 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 | 49.4397 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road        | 0.1709  | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      | 0.0000   | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |
| Total           | 49.6106 | 1.1455 | 1.8091 | 2.9700e-003 |               | 0.0515       | 0.0515     |                | 0.0515        | 0.0515      | 0.0000   | 281.4481  | 281.4481  | 0.0154 |     | 281.8319 |

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   | 0.3384 | 11.0240 | 3.5705 | 0.0380      | 0.6887        | 0.0131       | 0.7019     | 0.2126         | 0.0125        | 0.2251      |          | 4,069.9880 | 4,069.9880 | 0.2275 |     | 4,075.6763 |
| Worker   | 0.2288 | 0.1333  | 1.6159 | 5.5900e-003 | 0.4025        | 4.9200e-003  | 0.4074     | 0.1120         | 4.5300e-003   | 0.1166      |          | 557.0501   | 557.0501   | 0.0129 |     | 557.3714   |
| Total    | 0.5673 | 11.1573 | 5.1863 | 0.0435      | 1.0912        | 0.0180       | 1.1092     | 0.3246         | 0.0171        | 0.3417      |          | 4,627.0381 | 4,627.0381 | 0.2404 |     | 4,633.0477 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2   | NBio- CO2  | Total CO2 | CH4 | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|-----|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day     |            |           |     |     |            |
| Mitigated   | 1.4783 | 6.4302 | 14.3876 | 0.0522 | 4.5998        | 0.0423       | 4.6421     | 1.2307         | 0.0393        | 1.2700      | 5,340.2859 | 5,340.2859 | 0.2786    |     |     | 5,347.2508 |
| Unmitigated | 1.4783 | 6.4302 | 14.3876 | 0.0522 | 4.5998        | 0.0423       | 4.6421     | 1.2307         | 0.0393        | 1.2700      | 5,340.2859 | 5,340.2859 | 0.2786    |     |     | 5,347.2508 |

#### 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated |  | Mitigated  |  |
|-------------------------------------|-------------------------|----------|----------|-------------|--|------------|--|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  |  | Annual VMT |  |
| Apartments High Rise                | 1,048.32                | 1,048.32 | 1048.32  | 1,887,480   |  | 1,887,480  |  |
| Enclosed Parking with Elevator      | 0.00                    | 0.00     | 0.00     |             |  |            |  |
| High Turnover (Sit Down Restaurant) | 318.44                  | 318.44   | 318.44   | 276,145     |  | 276,145    |  |
| Total                               | 1,366.76                | 1,366.76 | 1,366.76 | 2,163,625   |  | 2,163,625  |  |

#### 4.3 Trip Type Information

| Land Use                            | Miles      |            |             |            | Trip %     |             |         |          | Trip Purpose % |  |  |  |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|---------|----------|----------------|--|--|--|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by        |  |  |  |
| Apartments High Rise                | 5.57       | 5.57       | 5.57        | 40.00      | 19.00      | 41.00       | 86      | 11       | 3              |  |  |  |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0       | 0        | 0              |  |  |  |
| High Turnover (Sit Down Restaurant) | 5.57       | 5.57       | 5.57        | 8.30       | 72.30      | 19.00       | 37      | 20       | 43             |  |  |  |

#### 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise                | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |
| Enclosed Parking with Elevator      | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |
| High Turnover (Sit Down Restaurant) | 0.544880 | 0.044491 | 0.207704 | 0.117752 | 0.014693 | 0.006272 | 0.020732 | 0.032141 | 0.002572 | 0.001984 | 0.006239 | 0.000700 | 0.000841 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 |        |        |             |               |              |            |                |               |             |          |            |            |        |        |            |
| NaturalGas  | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Mitigated   |        |        |        |             |               |              |            |                |               |             |          |            |            |        |        |            |
| NaturalGas  | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267 | 1,463.6281 |
| Unmitigated |        |        |        |             |               |              |            |                |               |             |          |            |            |        |        |            |

### 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 |        |        |             |               |              |            |                |               |             |          |            |            |        |             |            |
| Apartments High Rise                | 7878.59        | 0.0850 | 0.7261 | 0.3090 | 4.6300e-003 |               | 0.0587       | 0.0587     |                | 0.0587        | 0.0587      |          | 926.8929   | 926.8929   | 0.0178 | 0.0170      | 932.4010   |
| Enclosed Parking with Elevator      | 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     |
| High Turnover (Sit Down Restaurant) | 4488.76        | 0.0484 | 0.4401 | 0.3697 | 2.6400e-003 |               | 0.0335       | 0.0335     |                | 0.0335        | 0.0335      |          | 528.0890   | 528.0890   | 0.0101 | 9.6800e-003 | 531.2271   |
| Total                               |                | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267      | 1,463.6281 |

Mitigated

|                                     | Natural Gas 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 |        |        |             |               |              |            |                |               |             |          |            |            |        |             |            |
| Apartments High Rise                | 7.87859         | 0.0850 | 0.7261 | 0.3090 | 4.6300e-003 |               | 0.0587       | 0.0587     |                | 0.0587        | 0.0587      |          | 926.8929   | 926.8929   | 0.0178 | 0.0170      | 932.4010   |
| Enclosed Parking with Elevator      | 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     |
| High Turnover (Sit Down Restaurant) | 4.48876         | 0.0484 | 0.4401 | 0.3697 | 2.6400e-003 |               | 0.0335       | 0.0335     |                | 0.0335        | 0.0335      |          | 528.0890   | 528.0890   | 0.0101 | 9.6800e-003 | 531.2271   |
| Total                               |                 | 0.1334 | 1.1661 | 0.6786 | 7.2700e-003 |               | 0.0922       | 0.0922     |                | 0.0922        | 0.0922      |          | 1,454.9819 | 1,454.9819 | 0.0279 | 0.0267      | 1,463.6281 |

6.0 Area Detail

6.1 Mitigation Measures Area

|             | ROG    | NOX    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category    | lb/day |        |         |             |               |              |            |                |               |             |          |           |           |        |        |         |
| Mitigated   | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |
| Unmitigated | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG    | NOK    | CO      | SO2         | 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 | 0.5960 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Consumer Products     | 6.7418 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Hearth                | 0.0000 | 0.0000 | 0.0000  | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Landscaping           | 0.7755 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      |          | 46.4269   | 46.4269   | 0.0446 |        | 47.5416 |
| Total                 | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

Mitigated

|                       | ROG    | NOK    | CO      | SO2         | 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 | 0.5960 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Consumer Products     | 6.7418 |        |         |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |        |        | 0.0000  |
| Hearth                | 0.0000 | 0.0000 | 0.0000  | 0.0000      |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Landscaping           | 0.7755 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      |          | 46.4269   | 46.4269   | 0.0446 |        | 47.5416 |
| Total                 | 8.1133 | 0.2966 | 25.7526 | 1.3600e-003 |               | 0.1428       | 0.1428     |                | 0.1428        | 0.1428      | 0.0000   | 46.4269   | 46.4269   | 0.0446 | 0.0000 | 47.5416 |

7.0 Water Detail

7.1 Mitigation Measures Water



## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

### Boilers

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

### User Defined Equipment

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

## 11.0 Vegetation

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DOUGLASKIM+ASSOCIATES,LLC

## GREENHOUSE GAS EMISSIONS OVERVIEW

1201 South Grand Avenue Project  
GHG Emissions Impact Compared to "No Action Taken" Scenario

| Source          | NAT (2025) | As Proposed (2025) | Reduction from NAT | Change from NAT |
|-----------------|------------|--------------------|--------------------|-----------------|
| Area            | 5          | 5                  | -                  | 0%              |
| Energy          | 1,551      | 934                | (617)              | -40%            |
| Mobile          | 1,277      | 896                | (381)              | -30%            |
| Waste           | 115        | 28                 | (87)               | -76%            |
| Water           | 274        | 274                | -                  | 0%              |
| Construction    | 177        | 177                | -                  | 0%              |
| Total Emissions | 3,399      | 2,314              | (1,085)            | -31.9%          |

| Land Use | NAT                 | As Proposed                                                               | Difference     |
|----------|---------------------|---------------------------------------------------------------------------|----------------|
| Land Use | Same as proposed    | 312 DUs, 7,100 sf restaurants                                             | None           |
| Traffic  | Same as proposed    | Up to 1,366 gross ADT                                                     | None           |
| Area     | Same as proposed    | Project assumptions                                                       | None           |
| Energy   | No SB 100           | Per SB 100, assumes compliance with 50% renewable energy sourcing by 2026 | State measures |
| Mobile   | No State measures   | See below                                                                 | State measures |
| Waste    | No AB 341           | 75% reduction by 2020 per AB 341 (2011)                                   | None           |
| Water    | Project assumptions | Project assumptions                                                       | None           |

Mobile source emission: Pavley emission standards (19.8% reduction)  
Low carbon fuel standard (7.2% reduction)  
Vehicle efficiency measures (2.8% reduction)