

**CITY OF FRESNO  
ADDENDUM TO A MITIGATED NEGATIVE DECLARATION  
PREPARED FOR ENVIRONMENTAL ASSESSMENT FOR CITY OF  
FRESNO PROPOSED ACQUISITION FOR SENIOR CENTER AND  
HOUSING PROJECT**

**(As filed with the Fresno County Clerk on July 27, 2022)**

*Addendum prepared in accordance with Section 15164 of the California  
Environmental Quality Act (CEQA) Guidelines*

The full Initial Study and Mitigated Negative Declaration SCH No. 2022060718 are on file in the Development and Resource Management Department, Fresno City Hall, 3rd Floor, 2600 Fresno Street, Fresno, California 93721 (559) 621-8277

ENVIRONMENTAL ASSESSMENT NUMBER:

\_\_\_\_\_

This addendum was not circulated for public review pursuant to Section 15164(c) of the CEQA Guidelines.

**APPLICANT:**

Aldi Ramirez  
City of Fresno  
Parks, After School, and Community Services  
1515 E. Divisadero Street  
Fresno, CA 93721

**PROJECT LOCATION:**

4343 North Blackstone Avenue and 4323-4333 North Blackstone Avenue, Fresno, CA 93726; Located on the west side of North Blackstone Avenue between East Holland Avenue and East Swift Avenue in the City and county of Fresno, California (See Exhibit A - Vicinity Map). APN: 426-253-17 and 426-253-19  
Site Latitude: 36°47'49" N & Site Longitude: -119°47'30.5" W Mount Diablo Base & Meridian, Township 13, Range 20, Section 16

**PROJECT DESCRIPTION (Original):**

The City of Fresno intends to acquire the subject property located on the west side of North Blackstone Avenue between East Holland Avenue and East Swift Avenue at 4343 North Blackstone Avenue and 4233-4333 North Blackstone Avenue. The Project site consists of two (2) parcels that total 5.51 acres in size. One of the Project site parcels (APN: 426-253-17) currently contains a 40,564-square foot (sf.) grocery store and paved parking lot and is the proposed area of work ("Area of Work"). The other Project site parcel (APN:426-253-19) currently consists of an existing strip mall with six (6) separate tenant spaces, four (4) of which are leased to operating businesses.

Acquisition of the property by the City would facilitate the demolition of the existing grocery store to develop a 29,000 square foot (sf.) senior center and 33,000 sf., 70-unit affordable housing development for seniors. The senior center and affordable housing development in the Area of Work. The proposed senior center would provide programs and services for senior residents including, but not limited to, meal and nutrition programs, information and assistance, health and fitness programs, wellness programs, recreation activities, educational and arts programs, etc. to serve approximately 1,162 to 2,323 seniors a year. The existing development located on the parcel identified as APN 426-253-19 with a site address of 4233-4333 North Blackstone Avenue would remain with the City assuming the current leases. No development is proposed on this portion of the Project site.

**PROJECT DESCRIPTION (Revised):**

Since the time of the original environmental document was approved, the city has acquired/purchased the land. The proposed housing project has gone from 70 units to 100 units. For the environmental analysis, this addendum only analyzes the change contemplated from the original project, which is the increase in the number of housing units from 70 units (original project) to 100 units (revised project).

The revised project would not have a significant impact. It may be determined that: (1) The revised project does not significantly exceed the scope of *Environmental Assessment for City of Fresno Proposed Acquisition for Senior Center and Housing Project*; (2) No substantial changes are proposed in the revised project which require major revisions to the previous environmental finding due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; (3) No substantial changes will occur with respect to the circumstances under which the project is undertaken; and, (4) No new information, which was not known and could not have been known, at the time the environmental finding for *Environmental Assessment City of Fresno Proposed Acquisition for Senior Center and Housing Project* was adopted, has become available. Analysis for this determination is detailed in the section below.

Therefore, the City of Fresno has determined that an addendum to *Environmental Assessment City of Fresno Proposed Acquisition for Senior Center and Housing Project* is appropriate given that none of the conditions described in Section 15162 of the CEQA Guidelines calling for preparation of a subsequent negative declaration have occurred; and, new information added is only for the purposes of providing minor changes or additions, in accordance with Section 15164 of the CEQA Guidelines.

Section 15162 provides that when a negative declaration has been adopted for a project, no subsequent negative declaration shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

**FINDINGS PURSUANT TO SECTION 15162 OF THE CEQA GUIDELINES.**

- (1) *Substantial changes are proposed in the project which would require major revisions of the previous negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;*

**Finding (1):**

The revised project proposes 100 affordable units compared to the original project, which proposed 70 units. This is not a substantial change and would not create new significant environmental effects since the project is proposing the same operations, residential use. It is also assessed that the revised project would not cause a substantial increase in the severity of previously identified significant effects, as demonstrated in **Table 1**.

**Table 1: Assessment of New Significant Effects**

CEQA Impact Area	New Significant Effects (compared with the original project)
<b>Aesthetics</b>	<i>No Impact.</i> Project site is not adjacent to scenic highways, rivers, or historical buildings. There are also no scenic resources within or adjacent to the sites. The project, as revised, would implement the MND's mitigation measure governing exterior lighting, which would mitigate all potential light and glare impact to a less than significant level. Thus, there are no new significant impacts.
<b>Agriculture/ Forestry Resources</b>	<i>No Impact.</i> Project area is developed, is not located within areas zoned for agricultural or forestry uses, and does not contain agricultural or forestry resources. Since these conditions remain the same, the revised project would not result in additional or new impacts.

		<p><i>Less than Significant Impact.</i> Since the revised project exceeds the thresholds for Small Project Analysis Level (SPAL) that was used in the IS/MND, operational and construction-related emissions of criteria air pollutants were estimated using CalEEMod. As shown in <b>Table 2</b> and <b>Table 3</b> below, the estimated total operational and construction emissions for ROG, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are below the thresholds of significance.</p> <p><b>Table 2: Construction Emissions of Criteria Air Pollutants - Unmitigated</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Construction Year</th> <th colspan="6">Emissions (Tons/Year)</th> </tr> <tr> <th>ROG</th> <th>NO<sub>x</sub></th> <th>CO</th> <th>SO<sub>x</sub></th> <th>PM<sub>10</sub></th> <th>PM<sub>2.5</sub></th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>0.15</td> <td>1.26</td> <td>1.41</td> <td>0.00</td> <td>0.18</td> <td>0.11</td> </tr> <tr> <td>2024</td> <td>1.25</td> <td>0.88</td> <td>1.15</td> <td>0.00</td> <td>0.08</td> <td>0.05</td> </tr> <tr> <td><b>Maximum</b></td> <td><b>1.25</b></td> <td><b>1.26</b></td> <td><b>1.41</b></td> <td><b>0.00</b></td> <td><b>0.18</b></td> <td><b>0.11</b></td> </tr> <tr> <td><b>Significance Thresholds</b></td> <td><b>10</b></td> <td><b>10</b></td> <td><b>100</b></td> <td><b>27</b></td> <td><b>15</b></td> <td><b>15</b></td> </tr> <tr> <td><b>Exceed Significance Thresholds?</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> </tr> </tbody> </table> <p><i>CalEEMod run on April 10, 2023 (see Attachment A).</i>  <i>Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: <a href="https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF">https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF</a>. Accessed April 10, 2023.</i></p> <p><b>Table 3: Operational Emissions of Criteria Air Pollutants - Unmitigated</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Source</th> <th colspan="6">Emissions (Tons/Year)</th> </tr> <tr> <th>ROG</th> <th>NO<sub>x</sub></th> <th>CO</th> <th>SO<sub>x</sub></th> <th>PM<sub>10</sub></th> <th>PM<sub>2.5</sub></th> </tr> </thead> <tbody> <tr> <td>Area</td> <td>0.65</td> <td>0.05</td> <td>0.76</td> <td>0.00</td> <td>0.01</td> <td>0.01</td> </tr> <tr> <td>Energy</td> <td>0.01</td> <td>0.08</td> <td>0.05</td> <td>0.00</td> <td>0.01</td> <td>0.01</td> </tr> <tr> <td>Mobile</td> <td>0.59</td> <td>0.96</td> <td>5.07</td> <td>0.01</td> <td>1.14</td> <td>0.31</td> </tr> <tr> <td>Waste/Water</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td><b>Annual Total</b></td> <td><b>1.25</b></td> <td><b>1.09</b></td> <td><b>5.87</b></td> <td><b>0.01</b></td> <td><b>1.16</b></td> <td><b>0.33</b></td> </tr> <tr> <td><b>Significance Thresholds</b></td> <td><b>10</b></td> <td><b>10</b></td> <td><b>100</b></td> <td><b>27</b></td> <td><b>15</b></td> <td><b>15</b></td> </tr> <tr> <td><b>Exceed Significance Thresholds?</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> <td><b>No</b></td> </tr> </tbody> </table> <p><i>CalEEMod run on April 10, 2023 (see Attachment A).</i></p> <p>Based on the SJVAPCD's guidance, the construction and operational emissions would not cause an ambient air quality standard violation. As such, the revised project would not result in substantial impacts.</p>	Construction Year	Emissions (Tons/Year)						ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	2023	0.15	1.26	1.41	0.00	0.18	0.11	2024	1.25	0.88	1.15	0.00	0.08	0.05	<b>Maximum</b>	<b>1.25</b>	<b>1.26</b>	<b>1.41</b>	<b>0.00</b>	<b>0.18</b>	<b>0.11</b>	<b>Significance Thresholds</b>	<b>10</b>	<b>10</b>	<b>100</b>	<b>27</b>	<b>15</b>	<b>15</b>	<b>Exceed Significance Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	Source	Emissions (Tons/Year)						ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	Area	0.65	0.05	0.76	0.00	0.01	0.01	Energy	0.01	0.08	0.05	0.00	0.01	0.01	Mobile	0.59	0.96	5.07	0.01	1.14	0.31	Waste/Water	-	-	-	-	0.00	0.00	<b>Annual Total</b>	<b>1.25</b>	<b>1.09</b>	<b>5.87</b>	<b>0.01</b>	<b>1.16</b>	<b>0.33</b>	<b>Significance Thresholds</b>	<b>10</b>	<b>10</b>	<b>100</b>	<b>27</b>	<b>15</b>	<b>15</b>	<b>Exceed Significance Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
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	<p><b>Biological Resources</b></p>	<p><i>No Impact.</i> The project site is developed and improved. The site is paved with urban landscaping such as herbaceous vegetation, shrubs, or trees. Since all site conditions remain the same, the revised project would not result in additional or new impacts.</p>																																																																																																														
	<p><b>Cultural Resources</b></p>	<p><i>No Impact.</i> CHRIS record search conducted on June 20, 2022, with no evidence that historical resources exist on the project site. The project, as revised, would implement the MND's mitigation measure to mitigate hidden or buried resources that may exist on site. Since all site conditions remain the same, the revised project would not result in additional or new impacts.</p>																																																																																																														

<p style="text-align: center;"><b>Energy</b></p>	<p><i>Less than Significant Impact.</i> Energy use remains typical of residential use and the revised project would comply with regulations as stated in the ISMND. <b>Table 4</b> shows the comparison of energy consumption of the original and revised project. While the revised project energy consumption increases compared to the original project since it proposes more dwelling units, the energy per unit that is consumed decreases. As such, the revised project would not result in substantial impacts.</p> <p><b>Table 4: Energy Consumption Comparison</b></p> <table border="1" data-bbox="548 527 1430 699"> <thead> <tr> <th>Energy Consumption</th> <th>Original project</th> <th>Revised project</th> </tr> </thead> <tbody> <tr> <td>Electricity(kWh/year)</td> <td>525,825</td> <td>644,169</td> </tr> <tr> <td>Natural Gas (kBTU/year)</td> <td>1,424,934</td> <td>1,778,350</td> </tr> <tr> <td><b>Electricity per unit</b></td> <td>7,512</td> <td>6,442</td> </tr> <tr> <td><b>Natural Gas per unit</b></td> <td>20,356</td> <td>17,784</td> </tr> </tbody> </table>	Energy Consumption	Original project	Revised project	Electricity(kWh/year)	525,825	644,169	Natural Gas (kBTU/year)	1,424,934	1,778,350	<b>Electricity per unit</b>	7,512	6,442	<b>Natural Gas per unit</b>	20,356	17,784
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<p style="text-align: center;"><b>Geology/ Soils</b></p>	<p><i>No Impact.</i> There are no active faults in the City of Fresno and the site has low potential for ground failure, landslides, etc. In addition, the site is infill and surrounded by urban uses. Since all site conditions remain the same, the revised project would not result in additional or new impacts.</p>															
<p style="text-align: center;"><b>Greenhouse Gas Emissions</b></p>	<p><i>No Impact.</i> While the revised project would produce increased GHG emission compared to the original project, the revised project is consistent with the Fresno GHG Reduction Plan Update CEQA Consistency Checklist as reviewed in the ISMND. Since the revised project is compliant with the Fresno GHG Reduction Plan Update, the revised project would not result in additional or new impacts.</p>															
<p style="text-align: center;"><b>Hazards/ Hazardous Materials</b></p>	<p><i>No Impact.</i> Since the revised project proposes residential uses and a senior center that consist of the same operations as the original project, it is anticipated that the use, transport, and disposal of hazardous materials would be similar, and thus would not be the type or quantity that would pose a significant hazard to the public. Since all site conditions and proposed operations remain the same, the revised project would not result in additional or new impacts.</p>															
<p style="text-align: center;"><b>Hydrology/ Water Quality</b></p>	<p><i>Less than Significant Impact.</i> Since the site is larger than one (1) acre, compliance with NPDES would ensure future development does not violate water quality standards. Development of the revised project would also increase water demand compared to the original project. However, the proposed development density does not exceed the intensity anticipated in the General Plan or PEIR. While the revised project could increase the rate or amount of surface runoff, the project would be reviewed and conditioned by the FMFCD prior to approval to ensure controlled runoff. Lastly, as the site is currently developed, redevelopment facilitated by the project would result in improved drainage and recharge possibilities consistent with City requirements. Since site conditions remain the same and the revised project is within the scope of the General Plan, the revised project would not result in significant or new impacts.</p>															
<p style="text-align: center;"><b>Land Use/ Planning</b></p>	<p><i>No Impact.</i> The project and project site is considered “infill” since it is located in an urban neighborhood surrounded by existing developments, roadways, and utility lines. No physical division would occur. Since site conditions and the proposed operations remain the same, the revised project would not result in additional or new impacts.</p>															
<p style="text-align: center;"><b>Mineral Resources</b></p>	<p><i>No Impact.</i> The project site is not located in an area designated for mineral resource preservation or recovery. Since site conditions remain</p>															

		the same, the revised project would not result in additional or new impacts.
	<b>Noise</b>	<i>Less than Significant Impact.</i> The project, as revised, would implement the MND's mitigation measure to mitigate construction noise. Since site conditions and the proposed operations remain the same, the revised project would not result in additional or new impacts.
	<b>Population and Housing</b>	<i>No Impact.</i> The revised project proposes a use that is consistent with the zoning and planned land use of the site. As such, the project would not result in unplanned growth and would have no impact.
	<b>Public Services</b>	<i>Less than Significant Impact.</i> The revised project is expected to increase density, increasing the demand for public services. Consequently, the project would be conditioned to pay development impact fees and/or dedicate park land as regulated in the Code. Since the payment of fees authorized by the statute is deemed "full and complete mitigation" and the project is consistent with planned growth, the revised project would result in a less than significant impact.
	<b>Recreation</b>	<i>Less than Significant Impact.</i> The revised project is expected to increase residential units, increasing the demand for park land and recreation facilities. The Project would be conditioned to pay development impact fees and dedicate open space as regulated in the Code. As such, the revised project would result in a less than significant impact.
	<b>Transportation</b>	<i>No Impact.</i> The City of Fresno VMT Thresholds Section 3.0 regarding Project Screening discusses a variety of projects that may be screened out of a VMT analysis. The project, according to the ISMND, is eligible to screen out because the Project is within 0.50-miles of a Transit Priority Area and a High-Quality Transit Area. Since the site location and the transit conditions remain the same, the revised project would not result in additional or new impacts.
	<b>Tribal Cultural Resources</b>	<i>No Impact.</i> A CHRIS record search was conducted on June 20, 2022, with no evidence found that historical resources exist on the project site. No consultation was requested for the original project. The project, as revised, would implement the MND's mitigation measure to mitigate hidden or buried resources that may exist on site. Since all site conditions remain the same, the revised project would not result in additional or new impacts.
	<b>Utilities and Service Systems</b>	<i>Less than Significant Impact.</i> The revised project would increase residential units, increasing the demand for utilities and services systems. However, the revised project's land use and development density does not exceed the scale anticipated in the General Plan or PEIR. As a result, it can be presumed that the existing and planned utilities and service systems would be adequate to serve the project. In addition, the project would be subject to conditions from the city's public works and public utilities departments to ensure that adequate utilities are in place. Solid waste is expected to increase by 13.8 tons per year compared to the original project. Similar to the original project, the Project will be required by the City to install one (1) trash and recycling enclosure per 30 units for collection by Allied Waste Services. As such, compliance with the applicable measures and policies, as well as impact fees and other conditions of approval, the revised project would not result in significant or new impacts.

	<b>Wildfire</b>	<p><i>No Impact.</i> The site is fully developed and surrounded with a mix of urban uses and is not located within a wildland, which precludes the risk of wildfire. In addition, the revised project would not impair access to the existing roadway network and development would be conditioned to Building and Fire Code so that they would not exacerbate fire risks. Since site conditions remain the same, the revised project would not result in additional or new impacts.</p>
<p><i>(2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or,</i></p>		
<p><b>Finding (2):</b></p>	<p>The Initial Study (IS) and Mitigated Negative Declaration (MND) that was prepared for the original project was adopted in 2022. Since then, there have been no substantial changes to the circumstances under which the project is undertaken that have occurred. The development on the project site and within the vicinity of the project is generally the same as it was in 2022.</p>	
<p><i>(3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous Negative Declaration was adopted, shows any of the following: (A) The project will have one or more significant effects not discussed in the previous negative declaration; (B) Significant effects previously examined will be substantially more severe than shown in the previous negative declaration; (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project; and, (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous negative declaration, would substantially reduce one or more significant effects on the environment.</i></p>		
<p><b>Finding (3):</b></p>	<p>All significant effects were discussed in the original MND and impacts that are more severe than the original MND are discussed in Finding 1. In addition, mitigation measures of the previous MND remain feasible and effective. As such, there is no new information of substantial information that would cause a significant effect.</p>	
<p>ADDENDUM PREPARED BY:                  Bonique Emerson, AICP, VP of Planning                  Shin Tu, AICP Candidate, Associate Planner</p>		<p>SUBMITTED BY:                  _____</p>
<p>DATE: April 21, 2023</p>		<p>CITY OF FRESNO DEVELOPMENT AND                  RESOURCE MANAGEMENT DEPARTMENT</p>

Senior Center - revised project - San Joaquin Valley Unified APCD Air District, Annual

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

**Senior Center - revised project**

**San Joaquin Valley Unified APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	100.00	Dwelling Unit	4.25	100,000.00	317
Health Club	29.00	1000sqft	0.00	29,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	45
<b>Climate Zone</b>	3			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - The project site (Area of Work) is approximately 4.25 acres.  
Health Club refers to the senior center

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	2.63	4.25
tblLandUse	LotAcreage	0.67	0.00
tblWoodstoves	NumberCatalytic	4.25	0.00
tblWoodstoves	NumberNoncatalytic	4.25	0.00

**2.0 Emissions Summary**

Senior Center - revised project - San Joaquin Valley Unified APCD Air District, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1472	1.2618	1.4104	2.7500e-003	0.1254	0.0584	0.1837	0.0518	0.0547	0.1065	0.0000	241.9645	241.9645	0.0495	3.5700e-003	244.2671
2024	1.2468	0.8777	1.1495	2.2000e-003	0.0455	0.0386	0.0841	0.0122	0.0363	0.0485	0.0000	193.0801	193.0801	0.0362	3.2400e-003	194.9486
<b>Maximum</b>	<b>1.2468</b>	<b>1.2618</b>	<b>1.4104</b>	<b>2.7500e-003</b>	<b>0.1254</b>	<b>0.0584</b>	<b>0.1837</b>	<b>0.0518</b>	<b>0.0547</b>	<b>0.1065</b>	<b>0.0000</b>	<b>241.9645</b>	<b>241.9645</b>	<b>0.0495</b>	<b>3.5700e-003</b>	<b>244.2671</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1472	1.2618	1.4104	2.7500e-003	0.1254	0.0584	0.1837	0.0518	0.0547	0.1065	0.0000	241.9643	241.9643	0.0495	3.5700e-003	244.2669
2024	1.2468	0.8777	1.1495	2.2000e-003	0.0455	0.0386	0.0841	0.0122	0.0363	0.0485	0.0000	193.0799	193.0799	0.0362	3.2400e-003	194.9485
<b>Maximum</b>	<b>1.2468</b>	<b>1.2618</b>	<b>1.4104</b>	<b>2.7500e-003</b>	<b>0.1254</b>	<b>0.0584</b>	<b>0.1837</b>	<b>0.0518</b>	<b>0.0547</b>	<b>0.1065</b>	<b>0.0000</b>	<b>241.9643</b>	<b>241.9643</b>	<b>0.0495</b>	<b>3.5700e-003</b>	<b>244.2669</b>



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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.6731	0.6731
2	9-1-2023	11-30-2023	0.5559	0.5559
3	12-1-2023	2-29-2024	0.5331	0.5331
4	3-1-2024	5-31-2024	0.5259	0.5259
5	6-1-2024	8-31-2024	1.2867	1.2867
		Highest	1.2867	1.2867

**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	0.6445	0.0460	0.7580	2.8000e-004		7.1400e-003	7.1400e-003		7.1400e-003	7.1400e-003	0.0000	44.5341	44.5341	1.9900e-003	7.9000e-004	44.8206
Energy	9.5900e-003	0.0837	0.0478	5.2000e-004		6.6300e-003	6.6300e-003		6.6300e-003	6.6300e-003	0.0000	154.5004	154.5004	0.0115	2.9100e-003	155.6537
Mobile	0.5930	0.9581	5.0670	0.0116	1.1323	0.0105	1.1428	0.3030	9.8300e-003	0.3129	0.0000	1,093.5591	1,093.5591	0.0620	0.0634	1,114.0102
Waste						0.0000	0.0000		0.0000	0.0000	42.8920	0.0000	42.8920	2.5348	0.0000	106.2631
Water						0.0000	0.0000		0.0000	0.0000	2.6112	5.7912	8.4024	0.2691	6.4500e-003	17.0516
<b>Total</b>	<b>1.2471</b>	<b>1.0877</b>	<b>5.8728</b>	<b>0.0124</b>	<b>1.1323</b>	<b>0.0242</b>	<b>1.1565</b>	<b>0.3030</b>	<b>0.0236</b>	<b>0.3266</b>	<b>45.5032</b>	<b>1,298.3848</b>	<b>1,343.8880</b>	<b>2.8794</b>	<b>0.0736</b>	<b>1,437.7992</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6445	0.0460	0.7580	2.8000e-004		7.1400e-003	7.1400e-003		7.1400e-003	7.1400e-003	0.0000	44.5341	44.5341	1.9900e-003	7.9000e-004	44.8206
Energy	9.5900e-003	0.0837	0.0478	5.2000e-004		6.6300e-003	6.6300e-003		6.6300e-003	6.6300e-003	0.0000	154.5004	154.5004	0.0115	2.9100e-003	155.6537
Mobile	0.5930	0.9581	5.0670	0.0116	1.1323	0.0105	1.1428	0.3030	9.8300e-003	0.3129	0.0000	1,093.5591	1,093.5591	0.0620	0.0634	1,114.0102
Waste						0.0000	0.0000		0.0000	0.0000	42.8920	0.0000	42.8920	2.5348	0.0000	106.2631
Water						0.0000	0.0000		0.0000	0.0000	2.6112	5.7912	8.4024	0.2691	6.4500e-003	17.0516
<b>Total</b>	<b>1.2471</b>	<b>1.0877</b>	<b>5.8728</b>	<b>0.0124</b>	<b>1.1323</b>	<b>0.0242</b>	<b>1.1565</b>	<b>0.3030</b>	<b>0.0236</b>	<b>0.3266</b>	<b>45.5032</b>	<b>1,298.3848</b>	<b>1,343.8880</b>	<b>2.8794</b>	<b>0.0736</b>	<b>1,437.7992</b>

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

**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	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	7/5/2023	5	5	
3	Grading	Grading	7/6/2023	7/17/2023	5	8	

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4	Building Construction	Building Construction	7/18/2023	6/3/2024	5	230
5	Paving	Paving	6/4/2024	6/27/2024	5	18
6	Architectural Coating	Architectural Coating	6/28/2024	7/23/2024	5	18

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 202,500; Residential Outdoor: 67,500; Non-Residential Indoor: 43,500; Non-Residential Outdoor: 14,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>		<b>9.9800e-003</b>	<b>9.9800e-003</b>		<b>9.2800e-003</b>	<b>9.2800e-003</b>	<b>0.0000</b>	<b>33.9921</b>	<b>33.9921</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2301</b>

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

**3.2 Demolition - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9711	0.9711	3.0000e-005	3.0000e-005	0.9803
<b>Total</b>	<b>4.7000e-004</b>	<b>3.2000e-004</b>	<b>3.7300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9711</b>	<b>0.9711</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9803</b>

**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	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>		<b>9.9800e-003</b>	<b>9.9800e-003</b>		<b>9.2800e-003</b>	<b>9.2800e-003</b>	<b>0.0000</b>	<b>33.9920</b>	<b>33.9920</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2300</b>

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**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9711	0.9711	3.0000e-005	3.0000e-005	0.9803
<b>Total</b>	<b>4.7000e-004</b>	<b>3.2000e-004</b>	<b>3.7300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9711</b>	<b>0.9711</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9803</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>

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**3.3 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.1200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2913	0.2913	1.0000e-005	1.0000e-005	0.2941
<b>Total</b>	<b>1.4000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2913</b>	<b>0.2913</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2941</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>

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**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.1200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2913	0.2913	1.0000e-005	1.0000e-005	0.2941
<b>Total</b>	<b>1.4000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2913</b>	<b>0.2913</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2941</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0717</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>3.1000e-003</b>	<b>0.0314</b>	<b>0.0137</b>	<b>2.8500e-003</b>	<b>0.0166</b>	<b>0.0000</b>	<b>10.4243</b>	<b>10.4243</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5085</b>



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

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.4900e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3884	0.3884	1.0000e-005	1.0000e-005	0.3921
<b>Total</b>	<b>1.9000e-004</b>	<b>1.3000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3884</b>	<b>0.3884</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3921</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0717</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>3.1000e-003</b>	<b>0.0314</b>	<b>0.0137</b>	<b>2.8500e-003</b>	<b>0.0166</b>	<b>0.0000</b>	<b>10.4242</b>	<b>10.4242</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5085</b>

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

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.4900e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3884	0.3884	1.0000e-005	1.0000e-005	0.3921
<b>Total</b>	<b>1.9000e-004</b>	<b>1.3000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3884</b>	<b>0.3884</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3921</b>

**3.5 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	0.0936	0.8559	0.9665	1.6000e-003		0.0416	0.0416		0.0392	0.0392	0.0000	137.9238	137.9238	0.0328	0.0000	138.7441
<b>Total</b>	<b>0.0936</b>	<b>0.8559</b>	<b>0.9665</b>	<b>1.6000e-003</b>		<b>0.0416</b>	<b>0.0416</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>137.9238</b>	<b>137.9238</b>	<b>0.0328</b>	<b>0.0000</b>	<b>138.7441</b>

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

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0395	0.0121	1.8000e-004	5.9200e-003	2.6000e-004	6.1700e-003	1.7100e-003	2.4000e-004	1.9500e-003	0.0000	17.2535	17.2535	7.0000e-005	2.5800e-003	18.0246
Worker	0.0157	0.0105	0.1244	3.5000e-004	0.0400	2.1000e-004	0.0402	0.0106	1.9000e-004	0.0108	0.0000	32.3573	32.3573	1.0100e-003	9.4000e-004	32.6630
<b>Total</b>	<b>0.0167</b>	<b>0.0500</b>	<b>0.1365</b>	<b>5.3000e-004</b>	<b>0.0459</b>	<b>4.7000e-004</b>	<b>0.0463</b>	<b>0.0123</b>	<b>4.3000e-004</b>	<b>0.0128</b>	<b>0.0000</b>	<b>49.6108</b>	<b>49.6108</b>	<b>1.0800e-003</b>	<b>3.5200e-003</b>	<b>50.6877</b>

**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	0.0936	0.8559	0.9665	1.6000e-003		0.0416	0.0416		0.0392	0.0392	0.0000	137.9237	137.9237	0.0328	0.0000	138.7439
<b>Total</b>	<b>0.0936</b>	<b>0.8559</b>	<b>0.9665</b>	<b>1.6000e-003</b>		<b>0.0416</b>	<b>0.0416</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>137.9237</b>	<b>137.9237</b>	<b>0.0328</b>	<b>0.0000</b>	<b>138.7439</b>

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

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0395	0.0121	1.8000e-004	5.9200e-003	2.6000e-004	6.1700e-003	1.7100e-003	2.4000e-004	1.9500e-003	0.0000	17.2535	17.2535	7.0000e-005	2.5800e-003	18.0246
Worker	0.0157	0.0105	0.1244	3.5000e-004	0.0400	2.1000e-004	0.0402	0.0106	1.9000e-004	0.0108	0.0000	32.3573	32.3573	1.0100e-003	9.4000e-004	32.6630
<b>Total</b>	<b>0.0167</b>	<b>0.0500</b>	<b>0.1365</b>	<b>5.3000e-004</b>	<b>0.0459</b>	<b>4.7000e-004</b>	<b>0.0463</b>	<b>0.0123</b>	<b>4.3000e-004</b>	<b>0.0128</b>	<b>0.0000</b>	<b>49.6108</b>	<b>49.6108</b>	<b>1.0800e-003</b>	<b>3.5200e-003</b>	<b>50.6877</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0817	0.7461	0.8973	1.5000e-003		0.0340	0.0340		0.0320	0.0320	0.0000	128.6763	128.6763	0.0304	0.0000	129.4370
<b>Total</b>	<b>0.0817</b>	<b>0.7461</b>	<b>0.8973</b>	<b>1.5000e-003</b>		<b>0.0340</b>	<b>0.0340</b>		<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>128.6763</b>	<b>128.6763</b>	<b>0.0304</b>	<b>0.0000</b>	<b>129.4370</b>

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

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9000e-004	0.0368	0.0110	1.7000e-004	5.5200e-003	2.4000e-004	5.7600e-003	1.5900e-003	2.3000e-004	1.8200e-003	0.0000	15.8365	15.8365	7.0000e-005	2.3700e-003	16.5438
Worker	0.0135	8.6500e-003	0.1073	3.1000e-004	0.0373	1.9000e-004	0.0375	9.9100e-003	1.7000e-004	0.0101	0.0000	29.4253	29.4253	8.4000e-004	8.1000e-004	29.6880
<b>Total</b>	<b>0.0144</b>	<b>0.0455</b>	<b>0.1183</b>	<b>4.8000e-004</b>	<b>0.0428</b>	<b>4.3000e-004</b>	<b>0.0432</b>	<b>0.0115</b>	<b>4.0000e-004</b>	<b>0.0119</b>	<b>0.0000</b>	<b>45.2618</b>	<b>45.2618</b>	<b>9.1000e-004</b>	<b>3.1800e-003</b>	<b>46.2319</b>

**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	0.0817	0.7461	0.8973	1.5000e-003		0.0340	0.0340		0.0320	0.0320	0.0000	128.6761	128.6761	0.0304	0.0000	129.4368
<b>Total</b>	<b>0.0817</b>	<b>0.7461</b>	<b>0.8973</b>	<b>1.5000e-003</b>		<b>0.0340</b>	<b>0.0340</b>		<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>128.6761</b>	<b>128.6761</b>	<b>0.0304</b>	<b>0.0000</b>	<b>129.4368</b>

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

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9000e-004	0.0368	0.0110	1.7000e-004	5.5200e-003	2.4000e-004	5.7600e-003	1.5900e-003	2.3000e-004	1.8200e-003	0.0000	15.8365	15.8365	7.0000e-005	2.3700e-003	16.5438
Worker	0.0135	8.6500e-003	0.1073	3.1000e-004	0.0373	1.9000e-004	0.0375	9.9100e-003	1.7000e-004	0.0101	0.0000	29.4253	29.4253	8.4000e-004	8.1000e-004	29.6880
<b>Total</b>	<b>0.0144</b>	<b>0.0455</b>	<b>0.1183</b>	<b>4.8000e-004</b>	<b>0.0428</b>	<b>4.3000e-004</b>	<b>0.0432</b>	<b>0.0115</b>	<b>4.0000e-004</b>	<b>0.0119</b>	<b>0.0000</b>	<b>45.2618</b>	<b>45.2618</b>	<b>9.1000e-004</b>	<b>3.1800e-003</b>	<b>46.2319</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9300e-003</b>	<b>0.0745</b>	<b>0.1100</b>	<b>1.7000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3200e-003</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>14.7423</b>	<b>14.7423</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8581</b>

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**3.6 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.3000e-004	4.1400e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1361	1.1361	3.0000e-005	3.0000e-005	1.1463
<b>Total</b>	<b>5.2000e-004</b>	<b>3.3000e-004</b>	<b>4.1400e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1361</b>	<b>1.1361</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1463</b>

**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	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9300e-003</b>	<b>0.0745</b>	<b>0.1100</b>	<b>1.7000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3200e-003</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>14.7423</b>	<b>14.7423</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8581</b>

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**3.6 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.3000e-004	4.1400e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1361	1.1361	3.0000e-005	3.0000e-005	1.1463
<b>Total</b>	<b>5.2000e-004</b>	<b>3.3000e-004</b>	<b>4.1400e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1361</b>	<b>1.1361</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1463</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>1.1418</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>



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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.8000e-004	3.5200e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9657	0.9657	3.0000e-005	3.0000e-005	0.9743
<b>Total</b>	<b>4.4000e-004</b>	<b>2.8000e-004</b>	<b>3.5200e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9657</b>	<b>0.9657</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9743</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1402					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>1.1418</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

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

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.8000e-004	3.5200e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9657	0.9657	3.0000e-005	3.0000e-005	0.9743
<b>Total</b>	<b>4.4000e-004</b>	<b>2.8000e-004</b>	<b>3.5200e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9657</b>	<b>0.9657</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9743</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5930	0.9581	5.0670	0.0116	1.1323	0.0105	1.1428	0.3030	9.8300e-003	0.3129	0.0000	1,093.5591	1,093.5591	0.0620	0.0634	1,114.0102
Unmitigated	0.5930	0.9581	5.0670	0.0116	1.1323	0.0105	1.1428	0.3030	9.8300e-003	0.3129	0.0000	1,093.5591	1,093.5591	0.0620	0.0634	1,114.0102

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	544.00	491.00	409.00	1,498,585	1,498,585
Health Club	954.97	605.23	775.17	1,519,174	1,519,174
<b>Total</b>	<b>1,498.97</b>	<b>1,096.23</b>	<b>1,184.17</b>	<b>3,017,759</b>	<b>3,017,759</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.517111	0.052324	0.170980	0.155671	0.027786	0.007423	0.013424	0.026160	0.000649	0.000313	0.023324	0.001439	0.003395
Health Club	0.517111	0.052324	0.170980	0.155671	0.027786	0.007423	0.013424	0.026160	0.000649	0.000313	0.023324	0.001439	0.003395

**5.0 Energy Detail**

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive 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	59.6010	59.6010	9.6400e-003	1.1700e-003	60.1903
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.6010	59.6010	9.6400e-003	1.1700e-003	60.1903
Natural Gas Mitigated	9.5900e-003	0.0837	0.0478	5.2000e-004		6.6300e-003	6.6300e-003		6.6300e-003	6.6300e-003	0.0000	94.8995	94.8995	1.8200e-003	1.7400e-003	95.4634
Natural Gas Unmitigated	9.5900e-003	0.0837	0.0478	5.2000e-004		6.6300e-003	6.6300e-003		6.6300e-003	6.6300e-003	0.0000	94.8995	94.8995	1.8200e-003	1.7400e-003	95.4634

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.17805e+006	6.3500e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.8652	62.8652	1.2000e-003	1.1500e-003	63.2388
Health Club	600300	3.2400e-003	0.0294	0.0247	1.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	32.0343	32.0343	6.1000e-004	5.9000e-004	32.2247
<b>Total</b>		<b>9.5900e-003</b>	<b>0.0837</b>	<b>0.0478</b>	<b>5.3000e-004</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>94.8995</b>	<b>94.8995</b>	<b>1.8100e-003</b>	<b>1.7400e-003</b>	<b>95.4634</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.17805e+006	6.3500e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.8652	62.8652	1.2000e-003	1.1500e-003	63.2388
Health Club	600300	3.2400e-003	0.0294	0.0247	1.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	32.0343	32.0343	6.1000e-004	5.9000e-004	32.2247
<b>Total</b>		<b>9.5900e-003</b>	<b>0.0837</b>	<b>0.0478</b>	<b>5.3000e-004</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>		<b>6.6300e-003</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>94.8995</b>	<b>94.8995</b>	<b>1.8100e-003</b>	<b>1.7400e-003</b>	<b>95.4634</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	394479	36.4987	5.9000e-003	7.2000e-004	36.8596
Health Club	249690	23.1023	3.7400e-003	4.5000e-004	23.3307
<b>Total</b>		<b>59.6009</b>	<b>9.6400e-003</b>	<b>1.1700e-003</b>	<b>60.1903</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	394479	36.4987	5.9000e-003	7.2000e-004	36.8596
Health Club	249690	23.1023	3.7400e-003	4.5000e-004	23.3307
<b>Total</b>		<b>59.6009</b>	<b>9.6400e-003</b>	<b>1.1700e-003</b>	<b>60.1903</b>

**6.0 Area Detail**

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6445	0.0460	0.7580	2.8000e-004		7.1400e-003	7.1400e-003		7.1400e-003	7.1400e-003	0.0000	44.5341	44.5341	1.9900e-003	7.9000e-004	44.8206
Unmitigated	0.6445	0.0460	0.7580	2.8000e-004		7.1400e-003	7.1400e-003		7.1400e-003	7.1400e-003	0.0000	44.5341	44.5341	1.9900e-003	7.9000e-004	44.8206

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.3207	43.3207	8.3000e-004	7.9000e-004	43.5782
Landscaping	0.0223	8.5500e-003	0.7421	4.0000e-005		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	1.2134	1.2134	1.1600e-003	0.0000	1.2425
<b>Total</b>	<b>0.6445</b>	<b>0.0460</b>	<b>0.7580</b>	<b>2.8000e-004</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>44.5341</b>	<b>44.5341</b>	<b>1.9900e-003</b>	<b>7.9000e-004</b>	<b>44.8206</b>



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

**6.2 Area by SubCategory**

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	0.1140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.3207	43.3207	8.3000e-004	7.9000e-004	43.5782
Landscaping	0.0223	8.5500e-003	0.7421	4.0000e-005		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	1.2134	1.2134	1.1600e-003	0.0000	1.2425
<b>Total</b>	<b>0.6445</b>	<b>0.0460</b>	<b>0.7580</b>	<b>2.8000e-004</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>44.5341</b>	<b>44.5341</b>	<b>1.9900e-003</b>	<b>7.9000e-004</b>	<b>44.8206</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.4024	0.2691	6.4500e-003	17.0516
Unmitigated	8.4024	0.2691	6.4500e-003	17.0516

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.5154 / 4.10754	6.6591	0.2131	5.1000e-003	13.5060
Health Club	1.71515 / 1.05122	1.7432	0.0561	1.3400e-003	3.5456
<b>Total</b>		<b>8.4023</b>	<b>0.2691</b>	<b>6.4400e-003</b>	<b>17.0516</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.5154 / 4.10754	6.6591	0.2131	5.1000e-003	13.5060
Health Club	1.71515 / 1.05122	1.7432	0.0561	1.3400e-003	3.5456
<b>Total</b>		<b>8.4023</b>	<b>0.2691</b>	<b>6.4400e-003</b>	<b>17.0516</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.8920	2.5348	0.0000	106.2631
Unmitigated	42.8920	2.5348	0.0000	106.2631

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46	9.3376	0.5518	0.0000	23.1335
Health Club	165.3	33.5544	1.9830	0.0000	83.1296
<b>Total</b>		<b>42.8920</b>	<b>2.5349</b>	<b>0.0000</b>	<b>106.2631</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46	9.3376	0.5518	0.0000	23.1335
Health Club	165.3	33.5544	1.9830	0.0000	83.1296
<b>Total</b>		<b>42.8920</b>	<b>2.5349</b>	<b>0.0000</b>	<b>106.2631</b>

**9.0 Operational Offroad**

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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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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**11.0 Vegetation**

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