

## **Appendix A: Air Quality Modeling Memo**

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# MEMO

Date: August 16, 2018

To: **Kristy Weis**  
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From: James A. Reyff  
Illingworth & Rodkin, Inc.  
1 Willowbrook Court, Suite 120  
Petaluma, CA 94954

RE: **Vallco Special Area Specific Plan – Cupertino, CA**

SUBJECT: **Program Operational Alternative Air Quality Modeling** Job#18-004

This memo addresses additional air quality and greenhouse gas GHG emissions modeling associated with the Vallco Special Area Specific Plan Air Quality and Greenhouse Gas Emissions Assessment, dated May 21, 2018. That air quality analysis used the California Emissions Estimator Model, CalEEMod (Version 2016.3.2) to predict construction and operational period emissions of criteria air pollutants (and their precursors) and GHG. This memo addresses the air pollutant and GHG modeling for a new project alternative = Program Alternative.

A “Program” Alternative was evaluated. The additional modeling assumed the following land uses (as entered into the CalEEMod model):

- 460,000 sf entered as “Regional Shopping Center;”
- 2,923 dwelling units entered as “Apartments Mid Rise;”
- 1,750,000 sf entered as “General Office Building;”
- 339 rooms entered as “Hotel;”
- Transit hub entered as “User Defined Parking;”
- 38 acres entered as “City Park”/Green Roof,
- 10,000 sf entered as “Government (Civic Center),”
- 25,000 sf entered as “Junior College (2 Yr),”
- 11,391 spaces entered as “Enclosed Parking with Elevator.”

Construction

Average daily construction exhaust emissions were predicted using the California Emissions Estimator Model (CalEEMod) version 2016.3.2. Inputs to the model included the proposed land uses, construction start year, total 10-year expected duration (this was increased over CalEEMod’s default 6-year schedule), 2,100,000 cubic yard (cy) of soil export, and 2,170,350 square feet (sf) of demolition. The model predicts emissions of ozone precursor pollutants (i.e., ROG and NO<sub>x</sub>) and particulate matter (i.e., PM<sub>10</sub> and PM<sub>2.5</sub>). The model also computes emissions of CO<sub>2</sub>. The project schedule assumes that the project would be built out over a period of approximately 10 years beginning in 2019, or an estimated 2,600 construction workdays (based on an average of 260 workdays per year). Average daily emissions were computed by dividing the total construction emissions by the number of construction days. The effect of Mitigation Measures AQ-1 and AQ-2 were applied to the modeling results. Table 1 shows average daily construction emissions of ROG, NO<sub>x</sub>, PM<sub>10</sub> exhaust, and PM<sub>2.5</sub> exhaust during construction of the project. Table 1 also shows the emissions with implementation of Mitigation Measures AQ-1 and AQ-2 (see May 2018 assessment). Emissions of NO<sub>x</sub> during construction would be considered significant.

**TABLE 1 Construction Period Emissions**

Scenario	ROG	NO <sub>x</sub>	PM <sub>10</sub> Exhaust	PM <sub>2.5</sub> Exhaust
Program Alternative Construction Emissions (tons)	58.43 tons	215.58 tons	1.79 tons	1.67 tons
Average daily emissions (pounds) <sup>1</sup>	44.9 lbs.	165.8 lbs.	1.4 lbs.	1.3 lbs.
BAAQMD Thresholds (pounds per day)	54 lbs.	54 lbs.	82 lbs.	54 lbs.
<b>Exceed Threshold?</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>No</b>
1 Based on an average of 2,600 construction days.				

Operational Emissions

Long-term area and mobile source emissions from operation and use of subsequent development under this alternative were modeled using CalEEMod. Implementation of the Plan could include stationary sources of pollutants that would be required to obtain permits to operate in compliance with BAAQMD rules. These sources include, but are not limited to, heating boilers or back up diesel-powered generators. The permit process ensures that these sources would be equipped with the required emission controls and that, individually, these sources would result in a less-than-significant impact.

The forecasted project trip generation rates, which include adjustments for a mix of uses, were input to the model. These were assumed to represent weekday conditions, so the rates for Saturdays and Sundays were computed based on the proportional adjustments using default rates in CalEEMod. The default trip lengths and trip types specified by CalEEMod were used but results were post-processed to reflect vehicle miles travelled (VMT) forecasted in the traffic report. The project traffic report contains an estimate of VMT, whereas the CalEEMod model provides only an estimate of annual VMT. The daily weekday VMT was computed from CalEEMod using relative difference between daily weekday and weekend trip rates and the number of weekdays per year. The average weekday rate using CalEEMod is 280,792 miles. The daily VMT reported in the traffic study is 416,531 miles. To be conservative, CalEEMod mobile emissions were adjusted by a factor of 1.48 to account for this discrepancy between the CalEEMod VMT and the project traffic report estimated VMT.

Modeled operational period emissions in tons per year and pounds per day are summarized in Table 2. Note that similar to the May 2018 assessment for the proposed project, emissions of ROG, NO<sub>x</sub> and PM<sub>10</sub> would be significant. In addition, emissions of PM<sub>2.5</sub> would be significant under this alternative.

**TABLE 2 2029 Operational Air Pollutant Emissions – Program Alternative**

<b>Scenario</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Existing Operational Emissions (tons)	2.65 tons	5.29 tons	5.82 tons	1.58 tons
<b>Unmitigated Project</b>				
Proposed Project – non-mobile (tons)	27.09 tons	4.08 tons	0.42 tons	0.42 tons
Proposed Project –mobile (tons)	9.99 tons	41.98 tons	52.46 tons	14.25 tons
Net Proposed Project (tons)	34.43 tons	40.77 tons	47.06 tons	13.09 tons
<i>BAAQMD Thresholds (tons per year)</i>	<i>10 tons</i>	<i>10 tons</i>	<i>15 tons</i>	<i>10 tons</i>
<b>Exceed Threshold?</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Net Proposed Project (pounds per day)	188.6	223.4 lbs.	257.8 lbs.	71.7 lbs.
<i>BAAQMD Thresholds (pounds per day)</i>	<i>54 lbs.</i>	<i>54 lbs.</i>	<i>82 lbs.</i>	<i>54 lbs.</i>
<b>Exceed Threshold?</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

### **GHG Emissions**

GHG emissions were computed for this alternative using the CalEEMod model, as described under Impact 2. Emissions rates in CalEEMod associated with electricity consumption were adjusted to account for the proposed use of Silicon Valley Clean Energy’s 100 percent carbon-free electricity. Default model assumptions for GHG emissions associated with area sources, solid waste generation and water/wastewater use were applied. The model includes the 2016 Title 24 Building Standards, so, default rates for energy consumption were assumed in the model. CalEEMod predicts emissions of GHG in the form of equivalent carbon dioxide emissions or CO<sub>2e</sub> in metric tons per year.

GHG emissions are expressed in terms of emissions per service population, where service population is the estimated number of new residents and employees. The estimated 2029 service population for the Program Alternative is 14,024, based on 5,846 new residents and 8,178 new workers.

The DEIR used a 2030 project-level GHG emission efficiency metric of 2.6 MT of CO<sub>2e</sub> per service population (S.P.) per year was developed as a significance threshold. GHG emissions resulting from operation of the Program Alternative were compared to this threshold.

Table 3 shows the construction emissions, total and average annual, and the year 2029 annual operational emissions. GHG emissions are expressed in terms of annual metric tons of equivalent CO<sub>2</sub> (or CO<sub>2e</sub>) emissions (MT of CO<sub>2e</sub>/yr) and per service population emissions.

**TABLE 4 2029 GHG Emissions (MT of CO<sub>2e</sub>)**

<b>Source Category</b>	<b>Existing</b>	<b>Program Alternative</b>
Construction - total		90,215
Construction -average annual		9,022

Area	<1	37
Energy Consumption	38	4,164
Mobile	4,803	42,556
Solid Waste Generation	157	1,878
Water Usage	30	596
<b>Total</b>	5,028	49,231
<b>Efficiency Metric</b>		3.51
<i>2030 Substantial Progress Threshold</i>		2.6

Attachments:            1. Construction and Operational CalEEMod Output

Vallco, Cupertino - Program (8/10/2018) - Santa Clara County, Annual

**Vallco, Cupertino - Program (8/10/2018)**  
**Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,750.00	1000sqft	58.00	1,750,000.00	0
Government (Civic Center)	10.00	1000sqft	0.00	10,000.00	0
	0.00		0.00	0.00	0
Junior College (2Yr)	25.00	1000sqft	0.00	25,000.00	0
Enclosed Parking with Elevator	11,391.00	Space	0.00	4,556,400.00	0
User Defined Parking	1.00	User Defined Unit	0.00	0.00	0
City Park	38.00	Acre	0.00	1,655,280.00	0
Hotel	339.00	Room	0.00	492,228.00	0
Apartments Mid Rise	2,923.00	Dwelling Unit	0.00	2,923,000.00	8360
Regional Shopping Center	460.00	1000sqft	0.00	460,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2029
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Project will use Silicon Valley Clean Energy, which is 100% carbon-free

Land Use - 58 acres. Transit hub entered as "user defined parking"

Construction Phase - Default adjusted for 10-year anticipated construction period

Trips and VMT -

Demolition - 2,170,350 sf demo

Grading - 2,100,000 cy soil export

Vehicle Trips - Trip rates from project traffic report including MXD reductions. 5mi trip length for transit hub

Woodstoves - No woodstoves or fireplaces, possible gas fireplaces

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 engines and BAAQMD BMPs

Area Mitigation - Low VOC paint, no hearth

Energy Mitigation - energy efficient appliances

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	70.00	130.00
tblConstructionPhase	NumDays	40.00	78.00
tblConstructionPhase	NumDays	110.00	182.00
tblConstructionPhase	NumDays	1,110.00	1,950.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	75.00	130.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	438.45	935.00
tblFireplaces	NumberWood	496.91	0.00
tblGrading	MaterialExported	0.00	2,100,000.00
tblLandUse	LotAcreage	40.17	58.00

tblLandUse	LotAcreage	0.23	0.00
tblLandUse	LotAcreage	0.57	0.00
tblLandUse	LotAcreage	102.52	0.00
tblLandUse	LotAcreage	38.00	0.00
tblLandUse	LotAcreage	11.30	0.00
tblLandUse	LotAcreage	76.92	0.00
tblLandUse	LotAcreage	10.56	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	641.35	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblVehicleTrips	CC_TL	7.30	5.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	5.00
tblVehicleTrips	CW_TL	9.50	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	6.39	4.18
tblVehicleTrips	ST_TR	22.75	182.00
tblVehicleTrips	ST_TR	2.46	2.20
tblVehicleTrips	ST_TR	8.19	6.71
tblVehicleTrips	ST_TR	11.23	12.46
tblVehicleTrips	ST_TR	49.97	34.18
tblVehicleTrips	ST_TR	0.00	808.00
tblVehicleTrips	SU_TR	5.86	3.83
tblVehicleTrips	SU_TR	16.74	134.00
tblVehicleTrips	SU_TR	1.05	0.94
tblVehicleTrips	SU_TR	5.95	4.87
tblVehicleTrips	SU_TR	1.21	1.34
tblVehicleTrips	SU_TR	25.24	17.26
tblVehicleTrips	SU_TR	0.00	808.00
tblVehicleTrips	WD_TR	6.65	4.35



tblVehicleTrips	WD_TR	1.89	15.12
tblVehicleTrips	WD_TR	11.03	9.88
tblVehicleTrips	WD_TR	27.92	18.08
tblVehicleTrips	WD_TR	8.17	6.69
tblVehicleTrips	WD_TR	27.49	30.51
tblVehicleTrips	WD_TR	42.70	29.20
tblVehicleTrips	WD_TR	0.00	808.00
tblWoodstoves	WoodstoveWoodMass	582.40	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					
2019	0.9233	18.9908	5.8946	0.0402	4.2225	0.3247	4.5472	1.1765	0.3018	1.4783	0.0000	3,847.3161	3,847.3161	0.3077	0.0000	3,855.0097
2020	2.9202	45.8780	21.7182	0.1397	6.5743	0.3882	6.9625	1.8292	0.3643	2.1936	0.0000	13,253.9831	13,253.9831	0.6805	0.0000	13,270.9943
2021	3.2730	27.7017	25.3535	0.1197	7.3659	0.2147	7.5806	1.9944	0.2020	2.1964	0.0000	11,149.0360	11,149.0360	0.4449	0.0000	11,160.1587
2022	3.0340	25.8983	23.5041	0.1166	7.3377	0.1868	7.5245	1.9868	0.1757	2.1625	0.0000	10,874.2370	10,874.2370	0.4196	0.0000	10,884.7281
2023	2.7090	20.1575	21.6495	0.1129	7.3378	0.1459	7.4838	1.9868	0.1369	2.1237	0.0000	10,529.4085	10,529.4085	0.3719	0.0000	10,538.7071
2024	2.5827	19.8504	20.5805	0.1113	7.3944	0.1348	7.5292	2.0021	0.1264	2.1285	0.0000	10,394.9480	10,394.9480	0.3613	0.0000	10,403.9791
2025	2.4441	19.3183	19.3847	0.1086	7.3662	0.1223	7.4885	1.9945	0.1146	2.1091	0.0000	10,143.9863	10,143.9863	0.3478	0.0000	10,152.6816
2026	2.3466	19.0106	18.4682	0.1065	7.3663	0.1210	7.4873	1.9945	0.1135	2.1080	0.0000	9,957.2099	9,957.2099	0.3378	0.0000	9,965.6550
2027	2.1801	18.1020	17.1153	0.1011	7.1129	0.1168	7.2297	1.9259	0.1095	2.0354	0.0000	9,461.5670	9,461.5670	0.3202	0.0000	9,469.5724

2028	36.0182	0.6750	2.0128	5.7200e-003	0.5887	0.0316	0.6203	0.1566	0.0294	0.1859	0.0000	513.0485	513.0485	0.0456	0.0000	514.1893
<b>Maximum</b>	<b>36.0182</b>	<b>45.8780</b>	<b>25.3535</b>	<b>0.1397</b>	<b>7.3944</b>	<b>0.3882</b>	<b>7.5806</b>	<b>2.0021</b>	<b>0.3643</b>	<b>2.1964</b>	<b>0.0000</b>	<b>13,253.9831</b>	<b>13,253.9831</b>	<b>0.6805</b>	<b>0.0000</b>	<b>13,270.9943</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					
2019	0.9233	18.9908	5.8946	0.0402	2.4459	0.3247	2.7706	0.6489	0.3018	0.9507	0.0000	3,847.3155	3,847.3155	0.3077	0.0000	3,855.0091
2020	2.9202	45.8780	21.7182	0.1397	5.9943	0.3882	6.3825	1.6296	0.3643	1.9940	0.0000	13,253.9825	13,253.9825	0.6805	0.0000	13,270.9937
2021	3.2730	27.7017	25.3535	0.1197	7.3659	0.2147	7.5806	1.9944	0.2020	2.1964	0.0000	11,149.0356	11,149.0356	0.4449	0.0000	11,160.1584
2022	3.0340	25.8983	23.5041	0.1166	7.3377	0.1868	7.5245	1.9868	0.1757	2.1625	0.0000	10,874.2366	10,874.2366	0.4196	0.0000	10,884.7277
2023	2.7090	20.1575	21.6495	0.1129	7.3378	0.1459	7.4838	1.9868	0.1369	2.1237	0.0000	10,529.4082	10,529.4082	0.3719	0.0000	10,538.7067
2024	2.5827	19.8504	20.5805	0.1113	7.3944	0.1348	7.5292	2.0021	0.1264	2.1285	0.0000	10,394.9476	10,394.9476	0.3613	0.0000	10,403.9787
2025	2.4441	19.3183	19.3847	0.1086	7.3662	0.1223	7.4885	1.9945	0.1146	2.1091	0.0000	10,143.9859	10,143.9859	0.3478	0.0000	10,152.6812
2026	2.3466	19.0106	18.4682	0.1065	7.3663	0.1210	7.4873	1.9945	0.1135	2.1080	0.0000	9,957.2095	9,957.2095	0.3378	0.0000	9,965.6546
2027	2.1801	18.1020	17.1153	0.1011	7.1129	0.1168	7.2297	1.9259	0.1095	2.0354	0.0000	9,461.5667	9,461.5667	0.3202	0.0000	9,469.5720
2028	36.0182	0.6750	2.0128	5.7200e-003	0.5887	0.0316	0.6203	0.1566	0.0294	0.1859	0.0000	513.0484	513.0484	0.0456	0.0000	514.1892
<b>Maximum</b>	<b>36.0182</b>	<b>45.8780</b>	<b>25.3535</b>	<b>0.1397</b>	<b>7.3944</b>	<b>0.3882</b>	<b>7.5806</b>	<b>2.0021</b>	<b>0.3643</b>	<b>2.1964</b>	<b>0.0000</b>	<b>13,253.9825</b>	<b>13,253.9825</b>	<b>0.6805</b>	<b>0.0000</b>	<b>13,270.9937</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>3.76</b>	<b>0.00</b>	<b>3.66</b>	<b>4.27</b>	<b>0.00</b>	<b>3.88</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
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1	1-1-2019	3-31-2019	2.0521	2.0521
2	4-1-2019	6-30-2019	2.0549	2.0549
3	7-1-2019	9-30-2019	1.6482	1.6482
4	10-1-2019	12-31-2019	14.3296	14.3296
5	1-1-2020	3-31-2020	15.8304	15.8304
6	4-1-2020	6-30-2020	15.4167	15.4167
7	7-1-2020	9-30-2020	8.5403	8.5403
8	10-1-2020	12-31-2020	8.7568	8.7568
9	1-1-2021	3-31-2021	7.7241	7.7241
10	4-1-2021	6-30-2021	7.6305	7.6305
11	7-1-2021	9-30-2021	7.7143	7.7143
12	10-1-2021	12-31-2021	7.8957	7.8957
13	1-1-2022	3-31-2022	7.2396	7.2396
14	4-1-2022	6-30-2022	7.1590	7.1590
15	7-1-2022	9-30-2022	7.2377	7.2377
16	10-1-2022	12-31-2022	7.4004	7.4004
17	1-1-2023	3-31-2023	5.7338	5.7338
18	4-1-2023	6-30-2023	5.6684	5.6684
19	7-1-2023	9-30-2023	5.7307	5.7307
20	10-1-2023	12-31-2023	5.8613	5.8613
21	1-1-2024	3-31-2024	5.6411	5.6411
22	4-1-2024	6-30-2024	5.5194	5.5194
23	7-1-2024	9-30-2024	5.5801	5.5801
24	10-1-2024	12-31-2024	5.7031	5.7031
25	1-1-2025	3-31-2025	5.4305	5.4305
26	4-1-2025	6-30-2025	5.3759	5.3759
27	7-1-2025	9-30-2025	5.4349	5.4349
28	10-1-2025	12-31-2025	5.5511	5.5511
29	1-1-2026	3-31-2026	5.3269	5.3269
30	4-1-2026	6-30-2026	5.2768	5.2768

31	7-1-2026	9-30-2026	5.3347	5.3347
32	10-1-2026	12-31-2026	5.4453	5.4453
33	1-1-2027	3-31-2027	5.2259	5.2259
34	4-1-2027	6-30-2027	5.1802	5.1802
35	7-1-2027	9-30-2027	5.2371	5.2371
36	10-1-2027	12-31-2027	4.7408	4.7408
37	1-1-2028	3-31-2028	0.3104	0.3104
38	4-1-2028	6-30-2028	2.4553	2.4553
39	7-1-2028	9-30-2028	18.2546	18.2546
		Highest	18.2546	18.2546

## 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	26.6707	0.3517	21.8544	1.8000e-003		0.1289	0.1289		0.1289	0.1289	0.0000	152.4276	152.4276	0.0368	2.1400e-003	153.9863
Energy	0.4183	3.7281	2.6493	0.0228		0.2890	0.2890		0.2890	0.2890	0.0000	4,139.3444	4,139.3444	0.0793	0.0759	4,163.9425
Mobile	6.7481	28.3682	75.2038	0.3123	35.2238	0.2203	35.4440	9.4266	0.2047	9.6313	0.0000	28,732.9543	28,732.9543	0.8462	0.0000	28,754.1098
Waste						0.0000	0.0000		0.0000	0.0000	757.8566	0.0000	757.8566	44.7880	0.0000	1,877.5577
Water						0.0000	0.0000		0.0000	0.0000	173.6536	0.0000	173.6536	17.8359	0.4211	745.0518
<b>Total</b>	<b>33.8371</b>	<b>32.4481</b>	<b>99.7075</b>	<b>0.3369</b>	<b>35.2238</b>	<b>0.6382</b>	<b>35.8619</b>	<b>9.4266</b>	<b>0.6226</b>	<b>10.0492</b>	<b>931.5102</b>	<b>33,024.7263</b>	<b>33,956.2365</b>	<b>63.5863</b>	<b>0.4992</b>	<b>35,694.6480</b>

## 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	26.6589	0.2509	21.8115	1.1600e-003		0.1208	0.1208		0.1208	0.1208	0.0000	35.7029	35.7029	0.0346	0.0000	36.5679
Energy	0.4183	3.7281	2.6493	0.0228		0.2890	0.2890		0.2890	0.2890	0.0000	4,139.3444	4,139.3444	0.0793	0.0759	4,163.9425
Mobile	6.7481	28.3682	75.2038	0.3123	35.2238	0.2203	35.4440	9.4266	0.2047	9.6313	0.0000	28,732.9543	28,732.9543	0.8462	0.0000	28,754.1098
Waste						0.0000	0.0000		0.0000	0.0000	757.8566	0.0000	757.8566	44.7880	0.0000	1,877.5577
Water						0.0000	0.0000		0.0000	0.0000	138.9229	0.0000	138.9229	14.2687	0.3369	596.0414
<b>Total</b>	<b>33.8253</b>	<b>32.3473</b>	<b>99.6646</b>	<b>0.3363</b>	<b>35.2238</b>	<b>0.6300</b>	<b>35.8538</b>	<b>9.4266</b>	<b>0.6145</b>	<b>10.0411</b>	<b>896.7795</b>	<b>32,908.0016</b>	<b>33,804.7811</b>	<b>60.0169</b>	<b>0.4128</b>	<b>35,428.2193</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>0.03</b>	<b>0.31</b>	<b>0.04</b>	<b>0.19</b>	<b>0.00</b>	<b>1.28</b>	<b>0.02</b>	<b>0.00</b>	<b>1.31</b>	<b>0.08</b>	<b>3.73</b>	<b>0.35</b>	<b>0.45</b>	<b>5.61</b>	<b>17.30</b>	<b>0.75</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	1/1/2019	7/1/2019	5	130	
2	Site Preparation	Site Preparation	7/2/2019	10/17/2019	5	78	
3	Grading	Grading	10/18/2019	6/29/2020	5	182	
4	Building Construction	Building Construction	6/30/2020	12/20/2027	5	1950	
5	Paving	Paving	12/21/2027	6/19/2028	5	130	
6	Architectural Coating	Architectural Coating	6/20/2028	12/18/2028	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 455

Acres of Paving: 0

Residential Indoor: 5,919,075; Residential Outdoor: 1,973,025; Non-Residential Indoor: 4,105,842; Non-Residential Outdoor: 1,368,614;

**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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	9,872.00	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	8	20.00	0.00	262,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5,641.00	1,779.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,128.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0682	0.0000	1.0682	0.1617	0.0000	0.1617	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2284	2.3259	1.4339	2.5200e-003		0.1167	0.1167		0.1085	0.1085	0.0000	225.0711	225.0711	0.0626	0.0000	226.6365
<b>Total</b>	<b>0.2284</b>	<b>2.3259</b>	<b>1.4339</b>	<b>2.5200e-003</b>	<b>1.0682</b>	<b>0.1167</b>	<b>1.1849</b>	<b>0.1617</b>	<b>0.1085</b>	<b>0.2703</b>	<b>0.0000</b>	<b>225.0711</b>	<b>225.0711</b>	<b>0.0626</b>	<b>0.0000</b>	<b>226.6365</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0449	1.5368	0.3036	3.9300e-003	0.0837	5.9000e-003	0.0896	0.0230	5.6400e-003	0.0287	0.0000	380.3903	380.3903	0.0178	0.0000	380.8359

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	2.6400e-003	0.0272	8.0000e-005	7.7300e-003	5.0000e-005	7.7800e-003	2.0600e-003	5.0000e-005	2.1000e-003	0.0000	6.8453	6.8453	1.9000e-004	0.0000	6.8500
<b>Total</b>	<b>0.0484</b>	<b>1.5395</b>	<b>0.3308</b>	<b>4.0100e-003</b>	<b>0.0914</b>	<b>5.9500e-003</b>	<b>0.0973</b>	<b>0.0251</b>	<b>5.6900e-003</b>	<b>0.0308</b>	<b>0.0000</b>	<b>387.2356</b>	<b>387.2356</b>	<b>0.0180</b>	<b>0.0000</b>	<b>387.6859</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					0.2403	0.0000	0.2403	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2284	2.3259	1.4339	2.5200e-003		0.1167	0.1167		0.1085	0.1085	0.0000	225.0709	225.0709	0.0626	0.0000	226.6362
<b>Total</b>	<b>0.2284</b>	<b>2.3259</b>	<b>1.4339</b>	<b>2.5200e-003</b>	<b>0.2403</b>	<b>0.1167</b>	<b>0.3570</b>	<b>0.0364</b>	<b>0.1085</b>	<b>0.1449</b>	<b>0.0000</b>	<b>225.0709</b>	<b>225.0709</b>	<b>0.0626</b>	<b>0.0000</b>	<b>226.6362</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0449	1.5368	0.3036	3.9300e-003	0.0837	5.9000e-003	0.0896	0.0230	5.6400e-003	0.0287	0.0000	380.3903	380.3903	0.0178	0.0000	380.8359
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	2.6400e-003	0.0272	8.0000e-005	7.7300e-003	5.0000e-005	7.7800e-003	2.0600e-003	5.0000e-005	2.1000e-003	0.0000	6.8453	6.8453	1.9000e-004	0.0000	6.8500
<b>Total</b>	<b>0.0484</b>	<b>1.5395</b>	<b>0.3308</b>	<b>4.0100e-003</b>	<b>0.0914</b>	<b>5.9500e-003</b>	<b>0.0973</b>	<b>0.0251</b>	<b>5.6900e-003</b>	<b>0.0308</b>	<b>0.0000</b>	<b>387.2356</b>	<b>387.2356</b>	<b>0.0180</b>	<b>0.0000</b>	<b>387.6859</b>



### 3.3 Site Preparation - 2019

#### 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					0.7046	0.0000	0.7046	0.3873	0.0000	0.3873	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1691	1.7773	0.8605	1.4800e-003		0.0932	0.0932		0.0858	0.0858	0.0000	133.2579	133.2579	0.0422	0.0000	134.3119
<b>Total</b>	<b>0.1691</b>	<b>1.7773</b>	<b>0.8605</b>	<b>1.4800e-003</b>	<b>0.7046</b>	<b>0.0932</b>	<b>0.7978</b>	<b>0.3873</b>	<b>0.0858</b>	<b>0.4731</b>	<b>0.0000</b>	<b>133.2579</b>	<b>133.2579</b>	<b>0.0422</b>	<b>0.0000</b>	<b>134.3119</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5500e-003	1.9000e-003	0.0196	5.0000e-005	5.5700e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9286	4.9286	1.3000e-004	0.0000	4.9320
<b>Total</b>	<b>2.5500e-003</b>	<b>1.9000e-003</b>	<b>0.0196</b>	<b>5.0000e-005</b>	<b>5.5700e-003</b>	<b>4.0000e-005</b>	<b>5.6000e-003</b>	<b>1.4800e-003</b>	<b>3.0000e-005</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>4.9286</b>	<b>4.9286</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.9320</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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.1585	0.0000	0.1585	0.0871	0.0000	0.0871	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1691	1.7773	0.8605	1.4800e-003		0.0932	0.0932		0.0858	0.0858	0.0000	133.2577	133.2577	0.0422	0.0000	134.3118
<b>Total</b>	<b>0.1691</b>	<b>1.7773</b>	<b>0.8605</b>	<b>1.4800e-003</b>	<b>0.1585</b>	<b>0.0932</b>	<b>0.2518</b>	<b>0.0871</b>	<b>0.0858</b>	<b>0.1729</b>	<b>0.0000</b>	<b>133.2577</b>	<b>133.2577</b>	<b>0.0422</b>	<b>0.0000</b>	<b>134.3118</b>

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5500e-003	1.9000e-003	0.0196	5.0000e-005	5.5700e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9286	4.9286	1.3000e-004	0.0000	4.9320
<b>Total</b>	<b>2.5500e-003</b>	<b>1.9000e-003</b>	<b>0.0196</b>	<b>5.0000e-005</b>	<b>5.5700e-003</b>	<b>4.0000e-005</b>	<b>5.6000e-003</b>	<b>1.4800e-003</b>	<b>3.0000e-005</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>4.9286</b>	<b>4.9286</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.9320</b>

**3.4 Grading - 2019**

**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
Category	tons/yr										MT/yr					
Fugitive Dust					0.5196	0.0000	0.5196	0.1318	0.0000	0.1318	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1256	1.4448	0.8845	1.6400e-003		0.0631	0.0631		0.0581	0.0581	0.0000	147.6085	147.6085	0.0467	0.0000	148.7760

<b>Total</b>	<b>0.1256</b>	<b>1.4448</b>	<b>0.8845</b>	<b>1.6400e-003</b>	<b>0.5196</b>	<b>0.0631</b>	<b>0.5827</b>	<b>0.1318</b>	<b>0.0581</b>	<b>0.1898</b>	<b>0.0000</b>	<b>147.6085</b>	<b>147.6085</b>	<b>0.0467</b>	<b>0.0000</b>	<b>148.7760</b>
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**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	0.3474	11.9001	2.3505	0.0305	1.8289	0.0457	1.8746	0.4680	0.0437	0.5117	0.0000	2,945.4933	2,945.4933	0.1380	0.0000	2,948.9439
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	1.9300e-003	1.4300e-003	0.0148	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1200e-003	3.0000e-005	1.1400e-003	0.0000	3.7210	3.7210	1.0000e-004	0.0000	3.7236
<b>Total</b>	<b>0.3493</b>	<b>11.9015</b>	<b>2.3654</b>	<b>0.0305</b>	<b>1.8331</b>	<b>0.0457</b>	<b>1.8788</b>	<b>0.4692</b>	<b>0.0437</b>	<b>0.5129</b>	<b>0.0000</b>	<b>2,949.2144</b>	<b>2,949.2144</b>	<b>0.1381</b>	<b>0.0000</b>	<b>2,952.6674</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					0.1169	0.0000	0.1169	0.0296	0.0000	0.0296	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1256	1.4448	0.8845	1.6400e-003		0.0631	0.0631		0.0581	0.0581	0.0000	147.6083	147.6083	0.0467	0.0000	148.7759
<b>Total</b>	<b>0.1256</b>	<b>1.4448</b>	<b>0.8845</b>	<b>1.6400e-003</b>	<b>0.1169</b>	<b>0.0631</b>	<b>0.1801</b>	<b>0.0296</b>	<b>0.0581</b>	<b>0.0877</b>	<b>0.0000</b>	<b>147.6083</b>	<b>147.6083</b>	<b>0.0467</b>	<b>0.0000</b>	<b>148.7759</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.3474	11.9001	2.3505	0.0305	1.8289	0.0457	1.8746	0.4680	0.0437	0.5117	0.0000	2,945.4933	2,945.4933	0.1380	0.0000	2,948.9439
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	1.9300e-003	1.4300e-003	0.0148	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1200e-003	3.0000e-005	1.1400e-003	0.0000	3.7210	3.7210	1.0000e-004	0.0000	3.7236
<b>Total</b>	<b>0.3493</b>	<b>11.9015</b>	<b>2.3654</b>	<b>0.0305</b>	<b>1.8331</b>	<b>0.0457</b>	<b>1.8788</b>	<b>0.4692</b>	<b>0.0437</b>	<b>0.5129</b>	<b>0.0000</b>	<b>2,949.2144</b>	<b>2,949.2144</b>	<b>0.1381</b>	<b>0.0000</b>	<b>2,952.6674</b>

### 3.4 Grading - 2020

#### 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					0.7484	0.0000	0.7484	0.2575	0.0000	0.2575	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2870	3.2377	2.0613	4.0000e-003		0.1402	0.1402		0.1290	0.1290	0.0000	351.4237	351.4237	0.1137	0.0000	354.2651
<b>Total</b>	<b>0.2870</b>	<b>3.2377</b>	<b>2.0613</b>	<b>4.0000e-003</b>	<b>0.7484</b>	<b>0.1402</b>	<b>0.8887</b>	<b>0.2575</b>	<b>0.1290</b>	<b>0.3865</b>	<b>0.0000</b>	<b>351.4237</b>	<b>351.4237</b>	<b>0.1137</b>	<b>0.0000</b>	<b>354.2651</b>

#### Unmitigated Construction Off-Site

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

Hauling	0.7731	26.9955	5.5285	0.0733	2.0622	0.0877	2.1499	0.5527	0.0839	0.6366	0.0000	7,095.3843	7,095.3843	0.3246	0.0000	7,103.4987
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	4.2800e-003	3.0800e-003	0.0323	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7200e-003	6.0000e-005	2.7800e-003	0.0000	8.7739	8.7739	2.2000e-004	0.0000	8.7793
<b>Total</b>	<b>0.7773</b>	<b>26.9986</b>	<b>5.5608</b>	<b>0.0734</b>	<b>2.0724</b>	<b>0.0878</b>	<b>2.1602</b>	<b>0.5554</b>	<b>0.0840</b>	<b>0.6394</b>	<b>0.0000</b>	<b>7,104.1582</b>	<b>7,104.1582</b>	<b>0.3248</b>	<b>0.0000</b>	<b>7,112.2780</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					0.1684	0.0000	0.1684	0.0580	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2870	3.2377	2.0613	4.0000e-003		0.1402	0.1402		0.1290	0.1290	0.0000	351.4233	351.4233	0.1137	0.0000	354.2647
<b>Total</b>	<b>0.2870</b>	<b>3.2377</b>	<b>2.0613</b>	<b>4.0000e-003</b>	<b>0.1684</b>	<b>0.1402</b>	<b>0.3086</b>	<b>0.0580</b>	<b>0.1290</b>	<b>0.1870</b>	<b>0.0000</b>	<b>351.4233</b>	<b>351.4233</b>	<b>0.1137</b>	<b>0.0000</b>	<b>354.2647</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.7731	26.9955	5.5285	0.0733	2.0622	0.0877	2.1499	0.5527	0.0839	0.6366	0.0000	7,095.3843	7,095.3843	0.3246	0.0000	7,103.4987
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	4.2800e-003	3.0800e-003	0.0323	1.0000e-004	0.0102	7.0000e-005	0.0103	2.7200e-003	6.0000e-005	2.7800e-003	0.0000	8.7739	8.7739	2.2000e-004	0.0000	8.7793
<b>Total</b>	<b>0.7773</b>	<b>26.9986</b>	<b>5.5608</b>	<b>0.0734</b>	<b>2.0724</b>	<b>0.0878</b>	<b>2.1602</b>	<b>0.5554</b>	<b>0.0840</b>	<b>0.6394</b>	<b>0.0000</b>	<b>7,104.1582</b>	<b>7,104.1582</b>	<b>0.3248</b>	<b>0.0000</b>	<b>7,112.2780</b>

### 3.5 Building Construction - 2020

#### 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	0.1410	1.2759	1.1204	1.7900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	154.0206	154.0206	0.0376	0.0000	154.9600
<b>Total</b>	<b>0.1410</b>	<b>1.2759</b>	<b>1.1204</b>	<b>1.7900e-003</b>		<b>0.0743</b>	<b>0.0743</b>		<b>0.0699</b>	<b>0.0699</b>	<b>0.0000</b>	<b>154.0206</b>	<b>154.0206</b>	<b>0.0376</b>	<b>0.0000</b>	<b>154.9600</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4688	13.4704	3.5876	0.0323	0.7783	0.0667	0.8450	0.2250	0.0638	0.2888	0.0000	3,092.9596	3,092.9596	0.1418	0.0000	3,096.5056
Worker	1.2461	0.8954	9.3881	0.0282	2.9752	0.0192	2.9944	0.7913	0.0177	0.8090	0.0000	2,551.4210	2,551.4210	0.0626	0.0000	2,552.9855
<b>Total</b>	<b>1.7149</b>	<b>14.3658</b>	<b>12.9757</b>	<b>0.0605</b>	<b>3.7534</b>	<b>0.0859</b>	<b>3.8394</b>	<b>1.0163</b>	<b>0.0815</b>	<b>1.0978</b>	<b>0.0000</b>	<b>5,644.3806</b>	<b>5,644.3806</b>	<b>0.2044</b>	<b>0.0000</b>	<b>5,649.4912</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	0.1410	1.2759	1.1204	1.7900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	154.0205	154.0205	0.0376	0.0000	154.9598
<b>Total</b>	<b>0.1410</b>	<b>1.2759</b>	<b>1.1204</b>	<b>1.7900e-003</b>		<b>0.0743</b>	<b>0.0743</b>		<b>0.0699</b>	<b>0.0699</b>	<b>0.0000</b>	<b>154.0205</b>	<b>154.0205</b>	<b>0.0376</b>	<b>0.0000</b>	<b>154.9598</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4688	13.4704	3.5876	0.0323	0.7783	0.0667	0.8450	0.2250	0.0638	0.2888	0.0000	3,092.9596	3,092.9596	0.1418	0.0000	3,096.5056
Worker	1.2461	0.8954	9.3881	0.0282	2.9752	0.0192	2.9944	0.7913	0.0177	0.8090	0.0000	2,551.4210	2,551.4210	0.0626	0.0000	2,552.9855
<b>Total</b>	<b>1.7149</b>	<b>14.3658</b>	<b>12.9757</b>	<b>0.0605</b>	<b>3.7534</b>	<b>0.0859</b>	<b>3.8394</b>	<b>1.0163</b>	<b>0.0815</b>	<b>1.0978</b>	<b>0.0000</b>	<b>5,644.3806</b>	<b>5,644.3806</b>	<b>0.2044</b>	<b>0.0000</b>	<b>5,649.4912</b>

### **3.5 Building Construction - 2021**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2867</b>	<b>302.2867</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1099</b>
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**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	0.7572	23.8566	6.3505	0.0627	1.5273	0.0529	1.5802	0.4416	0.0506	0.4922	0.0000	6,013.6134	6,013.6134	0.2621	0.0000	6,020.1651
Worker	2.2678	1.5703	16.8399	0.0535	5.8385	0.0367	5.8753	1.5528	0.0338	1.5866	0.0000	4,833.1359	4,833.1359	0.1099	0.0000	4,835.8838
<b>Total</b>	<b>3.0250</b>	<b>25.4269</b>	<b>23.1904</b>	<b>0.1161</b>	<b>7.3659</b>	<b>0.0896</b>	<b>7.4555</b>	<b>1.9944</b>	<b>0.0844</b>	<b>2.0788</b>	<b>0.0000</b>	<b>10,846.7493</b>	<b>10,846.7493</b>	<b>0.3720</b>	<b>0.0000</b>	<b>10,856.0489</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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2863</b>	<b>302.2863</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1095</b>

**Mitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7572	23.8566	6.3505	0.0627	1.5273	0.0529	1.5802	0.4416	0.0506	0.4922	0.0000	6,013.6134	6,013.6134	0.2621	0.0000	6,020.1651
Worker	2.2678	1.5703	16.8399	0.0535	5.8385	0.0367	5.8753	1.5528	0.0338	1.5866	0.0000	4,833.1359	4,833.1359	0.1099	0.0000	4,835.8838
<b>Total</b>	<b>3.0250</b>	<b>25.4269</b>	<b>23.1904</b>	<b>0.1161</b>	<b>7.3659</b>	<b>0.0896</b>	<b>7.4555</b>	<b>1.9944</b>	<b>0.0844</b>	<b>2.0788</b>	<b>0.0000</b>	<b>10,846.7493</b>	<b>10,846.7493</b>	<b>0.3720</b>	<b>0.0000</b>	<b>10,856.0489</b>

### 3.5 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										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

#### Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7038	22.4649	5.9582	0.0618	1.5216	0.0458	1.5674	0.4399	0.0438	0.4837	0.0000	5,933.2611	5,933.2611	0.2493	0.0000	5,939.4930
Worker	2.1085	1.4033	15.4187	0.0513	5.8162	0.0358	5.8519	1.5468	0.0330	1.5798	0.0000	4,639.7330	4,639.7330	0.0982	0.0000	4,642.1880
<b>Total</b>	<b>2.8122</b>	<b>23.8682</b>	<b>21.3769</b>	<b>0.1131</b>	<b>7.3377</b>	<b>0.0816</b>	<b>7.4193</b>	<b>1.9868</b>	<b>0.0768</b>	<b>2.0635</b>	<b>0.0000</b>	<b>10,572.9942</b>	<b>10,572.9942</b>	<b>0.3475</b>	<b>0.0000</b>	<b>10,581.6810</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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7038	22.4649	5.9582	0.0618	1.5216	0.0458	1.5674	0.4399	0.0438	0.4837	0.0000	5,933.2611	5,933.2611	0.2493	0.0000	5,939.4930
Worker	2.1085	1.4033	15.4187	0.0513	5.8162	0.0358	5.8519	1.5468	0.0330	1.5798	0.0000	4,639.7330	4,639.7330	0.0982	0.0000	4,642.1880
<b>Total</b>	<b>2.8122</b>	<b>23.8682</b>	<b>21.3769</b>	<b>0.1131</b>	<b>7.3377</b>	<b>0.0816</b>	<b>7.4193</b>	<b>1.9868</b>	<b>0.0768</b>	<b>2.0635</b>	<b>0.0000</b>	<b>10,572.9942</b>	<b>10,572.9942</b>	<b>0.3475</b>	<b>0.0000</b>	<b>10,581.6810</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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5303	17.0254	5.3516	0.0600	1.5217	0.0199	1.5416	0.4400	0.0190	0.4590	0.0000	5,764.5713	5,764.5713	0.2122	0.0000	5,769.8770
Worker	1.9742	1.2621	14.1862	0.0493	5.8162	0.0351	5.8512	1.5468	0.0323	1.5791	0.0000	4,463.4911	4,463.4911	0.0880	0.0000	4,465.6918
<b>Total</b>	<b>2.5045</b>	<b>18.2874</b>	<b>19.5378</b>	<b>0.1094</b>	<b>7.3378</b>	<b>0.0550</b>	<b>7.3928</b>	<b>1.9868</b>	<b>0.0513</b>	<b>2.0381</b>	<b>0.0000</b>	<b>10,228.0624</b>	<b>10,228.0624</b>	<b>0.3003</b>	<b>0.0000</b>	<b>10,235.5688</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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5303	17.0254	5.3516	0.0600	1.5217	0.0199	1.5416	0.4400	0.0190	0.4590	0.0000	5,764.5713	5,764.5713	0.2122	0.0000	5,769.8770
Worker	1.9742	1.2621	14.1862	0.0493	5.8162	0.0351	5.8512	1.5468	0.0323	1.5791	0.0000	4,463.4911	4,463.4911	0.0880	0.0000	4,465.6918
<b>Total</b>	<b>2.5045</b>	<b>18.2874</b>	<b>19.5378</b>	<b>0.1094</b>	<b>7.3378</b>	<b>0.0550</b>	<b>7.3928</b>	<b>1.9868</b>	<b>0.0513</b>	<b>2.0381</b>	<b>0.0000</b>	<b>10,228.0624</b>	<b>10,228.0624</b>	<b>0.3003</b>	<b>0.0000</b>	<b>10,235.5688</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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>
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**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	0.5173	16.9397	5.2071	0.0601	1.5335	0.0197	1.5532	0.4434	0.0189	0.4622	0.0000	5,770.0713	5,770.0713	0.2095	0.0000	5,775.3085
Worker	1.8726	1.1495	13.2555	0.0478	5.8609	0.0347	5.8956	1.5587	0.0320	1.5907	0.0000	4,321.1543	4,321.1543	0.0799	0.0000	4,323.1527
<b>Total</b>	<b>2.3899</b>	<b>18.0893</b>	<b>18.4627</b>	<b>0.1078</b>	<b>7.3944</b>	<b>0.0545</b>	<b>7.4488</b>	<b>2.0021</b>	<b>0.0508</b>	<b>2.0529</b>	<b>0.0000</b>	<b>10,091.2256</b>	<b>10,091.2256</b>	<b>0.2894</b>	<b>0.0000</b>	<b>10,098.4612</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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5173	16.9397	5.2071	0.0601	1.5335	0.0197	1.5532	0.4434	0.0189	0.4622	0.0000	5,770.0713	5,770.0713	0.2095	0.0000	5,775.3085
Worker	1.8726	1.1495	13.2555	0.0478	5.8609	0.0347	5.8956	1.5587	0.0320	1.5907	0.0000	4,321.1543	4,321.1543	0.0799	0.0000	4,323.1527
<b>Total</b>	<b>2.3899</b>	<b>18.0893</b>	<b>18.4627</b>	<b>0.1078</b>	<b>7.3944</b>	<b>0.0545</b>	<b>7.4488</b>	<b>2.0021</b>	<b>0.0508</b>	<b>2.0529</b>	<b>0.0000</b>	<b>10,091.2256</b>	<b>10,091.2256</b>	<b>0.2894</b>	<b>0.0000</b>	<b>10,098.4612</b>

### 3.5 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										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

#### Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5011	16.6502	5.0497	0.0594	1.5277	0.0194	1.5471	0.4417	0.0185	0.4602	0.0000	5,710.7575	5,710.7575	0.2046	0.0000	5,715.8722
Worker	1.7646	1.0409	12.2360	0.0456	5.8385	0.0341	5.8726	1.5528	0.0314	1.5842	0.0000	4,130.5739	4,130.5739	0.0721	0.0000	4,132.3759
<b>Total</b>	<b>2.2657</b>	<b>17.6910</b>	<b>17.2856</b>	<b>0.1050</b>	<b>7.3662</b>	<b>0.0535</b>	<b>7.4197</b>	<b>1.9945</b>	<b>0.0499</b>	<b>2.0444</b>	<b>0.0000</b>	<b>9,841.3314</b>	<b>9,841.3314</b>	<b>0.2767</b>	<b>0.0000</b>	<b>9,848.2481</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5011	16.6502	5.0497	0.0594	1.5277	0.0194	1.5471	0.4417	0.0185	0.4602	0.0000	5,710.7575	5,710.7575	0.2046	0.0000	5,715.8722
Worker	1.7646	1.0409	12.2360	0.0456	5.8385	0.0341	5.8726	1.5528	0.0314	1.5842	0.0000	4,130.5739	4,130.5739	0.0721	0.0000	4,132.3759
<b>Total</b>	<b>2.2657</b>	<b>17.6910</b>	<b>17.2856</b>	<b>0.1050</b>	<b>7.3662</b>	<b>0.0535</b>	<b>7.4197</b>	<b>1.9945</b>	<b>0.0499</b>	<b>2.0444</b>	<b>0.0000</b>	<b>9,841.3314</b>	<b>9,841.3314</b>	<b>0.2767</b>	<b>0.0000</b>	<b>9,848.2481</b>

### 3.5 Building Construction - 2026

#### 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4891	16.4297	4.9513	0.0590	1.5278	0.0190	1.5468	0.4418	0.0182	0.4599	0.0000	5,676.8678	5,676.8678	0.2010	0.0000	5,681.8917
Worker	1.6790	0.9537	11.4179	0.0439	5.8385	0.0332	5.8717	1.5528	0.0305	1.5833	0.0000	3,977.6872	3,977.6872	0.0657	0.0000	3,979.3298
<b>Total</b>	<b>2.1682</b>	<b>17.3834</b>	<b>16.3691</b>	<b>0.1030</b>	<b>7.3663</b>	<b>0.0522</b>	<b>7.4185</b>	<b>1.9945</b>	<b>0.0487</b>	<b>2.0432</b>	<b>0.0000</b>	<b>9,654.5550</b>	<b>9,654.5550</b>	<b>0.2667</b>	<b>0.0000</b>	<b>9,661.2215</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4891	16.4297	4.9513	0.0590	1.5278	0.0190	1.5468	0.4418	0.0182	0.4599	0.0000	5,676.8678	5,676.8678	0.2010	0.0000	5,681.8917
Worker	1.6790	0.9537	11.4179	0.0439	5.8385	0.0332	5.8717	1.5528	0.0305	1.5833	0.0000	3,977.6872	3,977.6872	0.0657	0.0000	3,979.3298
<b>Total</b>	<b>2.1682</b>	<b>17.3834</b>	<b>16.3691</b>	<b>0.1030</b>	<b>7.3663</b>	<b>0.0522</b>	<b>7.4185</b>	<b>1.9945</b>	<b>0.0487</b>	<b>2.0432</b>	<b>0.0000</b>	<b>9,654.5550</b>	<b>9,654.5550</b>	<b>0.2667</b>	<b>0.0000</b>	<b>9,661.2215</b>

### **3.5 Building Construction - 2027**

#### 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	0.1723	1.5712	2.0267	3.4000e-003		0.0665	0.0665		0.0625	0.0625	0.0000	292.2185	292.2185	0.0687	0.0000	293.9358

<b>Total</b>	<b>0.1723</b>	<b>1.5712</b>	<b>2.0267</b>	<b>3.4000e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0625</b>	<b>0.0625</b>	<b>0.0000</b>	<b>292.2185</b>	<b>292.2185</b>	<b>0.0687</b>	<b>0.0000</b>	<b>293.9358</b>
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**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	0.4623	15.6463	4.7018	0.0567	1.4752	0.0180	1.4932	0.4265	0.0172	0.4437	0.0000	5,450.4706	5,450.4706	0.1907	0.0000	5,455.2374
Worker	1.5413	0.8458	10.3202	0.0410	5.6372	0.0305	5.6676	1.4992	0.0280	1.5273	0.0000	3,709.5169	3,709.5169	0.0579	0.0000	3,710.9653
<b>Total</b>	<b>2.0035</b>	<b>16.4921</b>	<b>15.0220</b>	<b>0.0976</b>	<b>7.1124</b>	<b>0.0485</b>	<b>7.1608</b>	<b>1.9258</b>	<b>0.0452</b>	<b>1.9710</b>	<b>0.0000</b>	<b>9,159.9876</b>	<b>9,159.9876</b>	<b>0.2486</b>	<b>0.0000</b>	<b>9,166.2027</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	0.1723	1.5712	2.0267	3.4000e-003		0.0665	0.0665		0.0625	0.0625	0.0000	292.2182	292.2182	0.0687	0.0000	293.9355
<b>Total</b>	<b>0.1723</b>	<b>1.5712</b>	<b>2.0267</b>	<b>3.4000e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0625</b>	<b>0.0625</b>	<b>0.0000</b>	<b>292.2182</b>	<b>292.2182</b>	<b>0.0687</b>	<b>0.0000</b>	<b>293.9355</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4623	15.6463	4.7018	0.0567	1.4752	0.0180	1.4932	0.4265	0.0172	0.4437	0.0000	5,450.4706	5,450.4706	0.1907	0.0000	5,455.2374
Worker	1.5413	0.8458	10.3202	0.0410	5.6372	0.0305	5.6676	1.4992	0.0280	1.5273	0.0000	3,709.5169	3,709.5169	0.0579	0.0000	3,710.9653
<b>Total</b>	<b>2.0035</b>	<b>16.4921</b>	<b>15.0220</b>	<b>0.0976</b>	<b>7.1124</b>	<b>0.0485</b>	<b>7.1608</b>	<b>1.9258</b>	<b>0.0452</b>	<b>1.9710</b>	<b>0.0000</b>	<b>9,159.9876</b>	<b>9,159.9876</b>	<b>0.2486</b>	<b>0.0000</b>	<b>9,166.2027</b>

### 3.6 Paving - 2027

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1200e-003	0.0386	0.0656	1.0000e-004		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	9.0087	9.0087	2.9100e-003	0.0000	9.0815
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>4.1200e-003</b>	<b>0.0386</b>	<b>0.0656</b>	<b>1.0000e-004</b>		<b>1.8800e-003</b>	<b>1.8800e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>9.0087</b>	<b>9.0087</b>	<b>2.9100e-003</b>	<b>0.0000</b>	<b>9.0815</b>

#### Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	8.0000e-005	9.8000e-004	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.3523	0.3523	1.0000e-005	0.0000	0.3524
<b>Total</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.3523</b>	<b>0.3523</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3524</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	4.1200e-003	0.0386	0.0656	1.0000e-004		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	9.0087	9.0087	2.9100e-003	0.0000	9.0815
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>4.1200e-003</b>	<b>0.0386</b>	<b>0.0656</b>	<b>1.0000e-004</b>		<b>1.8800e-003</b>	<b>1.8800e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>9.0087</b>	<b>9.0087</b>	<b>2.9100e-003</b>	<b>0.0000</b>	<b>9.0815</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	8.0000e-005	9.8000e-004	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.3523	0.3523	1.0000e-005	0.0000	0.3524
<b>Total</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.3523</b>	<b>0.3523</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3524</b>

### 3.6 Paving - 2028

#### 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	0.0554	0.5192	0.8820	1.3800e-003		0.0253	0.0253		0.0233	0.0233	0.0000	121.1165	121.1165	0.0392	0.0000	122.0958
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0554</b>	<b>0.5192</b>	<b>0.8820</b>	<b>1.3800e-003</b>		<b>0.0253</b>	<b>0.0253</b>		<b>0.0233</b>	<b>0.0233</b>	<b>0.0000</b>	<b>121.1165</b>	<b>121.1165</b>	<b>0.0392</b>	<b>0.0000</b>	<b>122.0958</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.8600e-003	1.0000e-003	0.0124	5.0000e-005	7.2000e-003	4.0000e-005	7.2300e-003	1.9100e-003	3.0000e-005	1.9500e-003	0.0000	4.5888	4.5888	7.0000e-005	0.0000	4.5905
<b>Total</b>	<b>1.8600e-003</b>	<b>1.0000e-003</b>	<b>0.0124</b>	<b>5.0000e-005</b>	<b>7.2000e-003</b>	<b>4.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9100e-003</b>	<b>3.0000e-005</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>4.5888</b>	<b>4.5888</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>4.5905</b>

#### Mitigated Construction On-Site



Off-Road	0.0111	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5962	16.5962	9.1000e-004	0.0000	16.6188
<b>Total</b>	<b>35.8106</b>	<b>0.0745</b>	<b>0.1176</b>	<b>1.9000e-004</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>16.5962</b>	<b>16.5962</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>16.6188</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1504	0.0804	1.0008	4.0900e-003	0.5815	2.9200e-003	0.5844	0.1547	2.6900e-003	0.1574	0.0000	370.7470	370.7470	5.4900e-003	0.0000	370.8842
<b>Total</b>	<b>0.1504</b>	<b>0.0804</b>	<b>1.0008</b>	<b>4.0900e-003</b>	<b>0.5815</b>	<b>2.9200e-003</b>	<b>0.5844</b>	<b>0.1547</b>	<b>2.6900e-003</b>	<b>0.1574</b>	<b>0.0000</b>	<b>370.7470</b>	<b>370.7470</b>	<b>5.4900e-003</b>	<b>0.0000</b>	<b>370.8842</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	35.7995					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0745	0.1176	1.9000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	16.5961	16.5961	9.1000e-004	0.0000	16.6188
<b>Total</b>	<b>35.8106</b>	<b>0.0745</b>	<b>0.1176</b>	<b>1.9000e-004</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>16.5961</b>	<b>16.5961</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>16.6188</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1504	0.0804	1.0008	4.0900e-003	0.5815	2.9200e-003	0.5844	0.1547	2.6900e-003	0.1574	0.0000	370.7470	370.7470	5.4900e-003	0.0000	370.8842
<b>Total</b>	<b>0.1504</b>	<b>0.0804</b>	<b>1.0008</b>	<b>4.0900e-003</b>	<b>0.5815</b>	<b>2.9200e-003</b>	<b>0.5844</b>	<b>0.1547</b>	<b>2.6900e-003</b>	<b>0.1574</b>	<b>0.0000</b>	<b>370.7470</b>	<b>370.7470</b>	<b>5.4900e-003</b>	<b>0.0000</b>	<b>370.8842</b>

#### 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	6.7481	28.3682	75.2038	0.3123	35.2238	0.2203	35.4440	9.4266	0.2047	9.6313	0.0000	28,732.9543	28,732.9543	0.8462	0.0000	28,754.1098
Unmitigated	6.7481	28.3682	75.2038	0.3123	35.2238	0.2203	35.4440	9.4266	0.2047	9.6313	0.0000	28,732.9543	28,732.9543	0.8462	0.0000	28,754.1098

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT



Apartments Mid Rise	12,715.05	12,218.14	11195.09	28,701,318	28,701,318
City Park	574.56	6,916.00	5092.00	4,538,331	4,538,331
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	17,290.00	3,850.00	1645.00	31,389,403	31,389,403
Government (Civic Center)	180.80	0.00	0.00	246,874	246,874
Hotel	2,267.91	2,274.69	1650.93	4,143,252	4,143,252
Junior College (2Yr)	762.75	311.50	33.50	1,508,757	1,508,757
Regional Shopping Center	13,432.00	15,722.80	7939.60	22,748,479	22,748,479
User Defined Parking	808.00	808.00	808.00	1,470,560	1,470,560
<b>Total</b>	<b>48,031.07</b>	<b>42,101.13</b>	<b>28,364.12</b>	<b>94,746,975</b>	<b>94,746,975</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	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
User Defined Parking	5.00	5.00	5.00	0.00	100.00	0.00	100	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Apartments Mid Rise	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
City Park	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Enclosed Parking with Elevator	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
General Office Building	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Government (Civic Center)	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Hotel	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Junior College (2Yr)	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
Regional Shopping Center	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656
User Defined Parking	0.621001	0.034238	0.180324	0.101476	0.012045	0.005050	0.013047	0.022691	0.002214	0.001475	0.005139	0.000645	0.000656



General Office Building	2.86475e+007	0.1545	1.4043	1.1796	8.4300e-003		0.1067	0.1067		0.1067	0.1067	0.0000	1,528.7397	1,528.7397	0.0293	0.0280	1,537.8242
Government (Civic Center)	163700	8.8000e-004	8.0200e-003	6.7400e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7357	8.7357	1.7000e-004	1.6000e-004	8.7876
Hotel	2.18106e+007	0.1176	1.0692	0.8981	6.4100e-003		0.0813	0.0813		0.0813	0.0813	0.0000	1,163.8979	1,163.8979	0.0223	0.0213	1,170.8144
Junior College (2Yr)	603250	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1917	32.1917	6.2000e-004	5.9000e-004	32.3830
Regional Shopping Center	1.0902e+006	5.8800e-003	0.0534	0.0449	3.2000e-004		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	58.1772	58.1772	1.1200e-003	1.0700e-003	58.5229
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.4183</b>	<b>3.7281</b>	<b>2.6493</b>	<b>0.0228</b>		<b>0.2890</b>	<b>0.2890</b>		<b>0.2890</b>	<b>0.2890</b>	<b>0.0000</b>	<b>4,139.3444</b>	<b>4,139.3444</b>	<b>0.0794</b>	<b>0.0759</b>	<b>4,163.9425</b>

### 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					
Apartments Mid Rise	2.52531e+007	0.1362	1.1636	0.4952	7.4300e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.6022	1,347.6022	0.0258	0.0247	1,355.6104
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
General Office Building	2.86475e+007	0.1545	1.4043	1.1796	8.4300e-003		0.1067	0.1067		0.1067	0.1067	0.0000	1,528.7397	1,528.7397	0.0293	0.0280	1,537.8242
Government (Civic Center)	163700	8.8000e-004	8.0200e-003	6.7400e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7357	8.7357	1.7000e-004	1.6000e-004	8.7876
Hotel	2.18106e+007	0.1176	1.0692	0.8981	6.4100e-003		0.0813	0.0813		0.0813	0.0813	0.0000	1,163.8979	1,163.8979	0.0223	0.0213	1,170.8144
Junior College (2Yr)	603250	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1917	32.1917	6.2000e-004	5.9000e-004	32.3830
Regional Shopping Center	1.0902e+006	5.8800e-003	0.0534	0.0449	3.2000e-004		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	58.1772	58.1772	1.1200e-003	1.0700e-003	58.5229
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.4183</b>	<b>3.7281</b>	<b>2.6493</b>	<b>0.0228</b>		<b>0.2890</b>	<b>0.2890</b>		<b>0.2890</b>	<b>0.2890</b>	<b>0.0000</b>	<b>4,139.3444</b>	<b>4,139.3444</b>	<b>0.0794</b>	<b>0.0759</b>	<b>4,163.9425</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.20672e+007	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.67005e+007	0.0000	0.0000	0.0000	0.0000
General Office Building	3.12025e+007	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	178300	0.0000	0.0000	0.0000	0.0000
Hotel	3.75078e+006	0.0000	0.0000	0.0000	0.0000
Junior College (2Yr)	197750	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.9174e+006	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.17569e+007	0.0000	0.0000	0.0000	0.0000

City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.67005e+007	0.0000	0.0000	0.0000	0.0000
General Office Building	3.12025e+007	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	178300	0.0000	0.0000	0.0000	0.0000
Hotel	3.75078e+006	0.0000	0.0000	0.0000	0.0000
Junior College (2Yr)	197750	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.9174e+006	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.6589	0.2509	21.8115	1.1600e-003		0.1208	0.1208		0.1208	0.1208	0.0000	35.7029	35.7029	0.0346	0.0000	36.5679
Unmitigated	26.6707	0.3517	21.8544	1.8000e-003		0.1289	0.1289		0.1289	0.1289	0.0000	152.4276	152.4276	0.0368	2.1400e-003	153.9863

## 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	3.5800						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	22.4161						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0118	0.1008	0.0429	6.4000e-004			8.1500e-003	8.1500e-003		8.1500e-003	8.1500e-003	0.0000	116.7247	116.7247	2.2400e-003	2.1400e-003	117.4184
Landscaping	0.6629	0.2509	21.8115	1.1600e-003			0.1208	0.1208		0.1208	0.1208	0.0000	35.7029	35.7029	0.0346	0.0000	36.5679
<b>Total</b>	<b>26.6707</b>	<b>0.3517</b>	<b>21.8544</b>	<b>1.8000e-003</b>			<b>0.1289</b>	<b>0.1289</b>		<b>0.1289</b>	<b>0.1289</b>	<b>0.0000</b>	<b>152.4276</b>	<b>152.4276</b>	<b>0.0368</b>	<b>2.1400e-003</b>	<b>153.9863</b>

### 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	3.5800						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	22.4161						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	0.6629	0.2509	21.8115	1.1600e-003			0.1208	0.1208		0.1208	0.1208	0.0000	35.7029	35.7029	0.0346	0.0000	36.5679
<b>Total</b>	<b>26.6589</b>	<b>0.2509</b>	<b>21.8115</b>	<b>1.1600e-003</b>			<b>0.1208</b>	<b>0.1208</b>		<b>0.1208</b>	<b>0.1208</b>	<b>0.0000</b>	<b>35.7029</b>	<b>35.7029</b>	<b>0.0346</b>	<b>0.0000</b>	<b>36.5679</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	138.9229	14.2687	0.3369	596.0414
Unmitigated	173.6536	17.8359	0.4211	745.0518

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	190.445 / 120.063	60.4195	6.2057	0.1465	259.2267
City Park	0 / 45.2763	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000

General Office Building	311.034 / 190.634	98.6768	10.1351	0.2393	423.3675
Government (Civic Center)	1.9866 / 1.21759	0.6303	0.0647	1.5300e-003	2.7041
Hotel	8.59934 / 0.955482	2.7282	0.2802	6.6200e-003	11.7051
Junior College (2Yr)	1.22623 / 1.91794	0.3890	0.0400	9.4000e-004	1.6691
Regional Shopping Center	34.0734 / 20.8837	10.8099	1.1103	0.0262	46.3793
User Defined Parking	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>173.6536</b>	<b>17.8359</b>	<b>0.4212</b>	<b>745.0518</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	152.356 / 112.739	48.3356	4.9645	0.1172	207.3813
City Park	0 / 42.5144	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	248.827 / 179.005	78.9414	8.1080	0.1915	338.6940
Government (Civic Center)	1.58928 / 1.14332	0.5042	0.0518	1.2200e-003	2.1633
Hotel	6.87947 / 0.897197	2.1825	0.2242	5.2900e-003	9.3641
Junior College (2Yr)	0.980981 / 1.80095	0.3112	0.0320	7.5000e-004	1.3353
Regional Shopping Center	27.2587 / 19.6098	8.6479	0.8882	0.0210	37.1035
User Defined Parking	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>138.9229</b>	<b>14.2687</b>	<b>0.3369</b>	<b>596.0414</b>



## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	757.8566	44.7880	0.0000	1,877.5577
Unmitigated	757.8566	44.7880	0.0000	1,877.5577

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1344.58	272.9376	16.1302	0.0000	676.1913
City Park	3.27	0.6638	0.0392	0.0000	1.6445
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1627.5	330.3678	19.5242	0.0000	818.4722
Government (Civic Center)	57	11.5705	0.6838	0.0000	28.6654
Hotel	185.6	37.6751	2.2265	0.0000	93.3385

Junior College (2Yr)	32.5	6.5972	0.3899	0.0000	16.3443
Regional Shopping Center	483	98.0446	5.7943	0.0000	242.9014
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>757.8566</b>	<b>44.7881</b>	<b>0.0000</b>	<b>1,877.5577</b>

**Mitigated**

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	1344.58	272.9376	16.1302	0.0000	676.1913
City Park	3.27	0.6638	0.0392	0.0000	1.6445
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1627.5	330.3678	19.5242	0.0000	818.4722
Government (Civic Center)	57	11.5705	0.6838	0.0000	28.6654
Hotel	185.6	37.6751	2.2265	0.0000	93.3385
Junior College (2Yr)	32.5	6.5972	0.3899	0.0000	16.3443
Regional Shopping Center	483	98.0446	5.7943	0.0000	242.9014
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>757.8566</b>	<b>44.7881</b>	<b>0.0000</b>	<b>1,877.5577</b>

**9.0 Operational Offroad**

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

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### Fire Pumps and Emergency Generators

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