

# **Appendix 5.3-1    Air Emissions Modeling Calculations**

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Rancho Cucamonga General Plan 2040 - Construction Emissions - South Coast AQMD Air District, Summer

**Rancho Cucamonga General Plan 2040 - Construction Emissions**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	146.50	1000sqft	3.36	146,500.00	0
Manufacturing	95.50	1000sqft	2.19	95,500.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Hotel	66.00	Room	2.20	95,832.00	0
Movie Theater (No Matinee)	8.70	1000sqft	0.20	8,700.00	0
Apartments Low Rise	1,208.00	Dwelling Unit	75.50	1,208,000.00	3455
Single Family Housing	219.00	Dwelling Unit	71.10	394,200.00	626
Regional Shopping Center	230.40	1000sqft	5.29	230,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - This file is used for construction air emissions reporting only.

Land Use - Regional Shopping Center was assumed under the Retail section.

Construction Phase - Number of days for each phase was adjusted to fit annual construction timeline.

Trips and VMT -

Grading - Maximum disturbed

Architectural Coating -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - SCAQMD prohibits any wood-burning devices, such as wood-burning fireplaces or stoves, from being installed in new construction under SCAQMD Rule 401.

Area Coating -

Energy Use -

Vehicle Trips - Model not used for operational emissions

Off-road Equipment - Updated to match land uses

Off-road Equipment - Updated to match land uses

Off-road Equipment - Updated to match land uses

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	5.00
tblConstructionPhase	NumDays	310.00	25.00
tblConstructionPhase	NumDays	3,100.00	213.00
tblConstructionPhase	NumDays	220.00	11.00
tblConstructionPhase	NumDays	220.00	65.00
tblConstructionPhase	PhaseEndDate	6/17/2022	1/8/2022
tblConstructionPhase	PhaseEndDate	8/25/2023	2/5/2022
tblConstructionPhase	PhaseEndDate	7/13/2035	11/30/2022
tblConstructionPhase	PhaseEndDate	5/16/2036	12/15/2022
tblConstructionPhase	PhaseEndDate	3/20/2037	12/30/2022
tblConstructionPhase	PhaseStartDate	6/18/2022	1/1/2022
tblConstructionPhase	PhaseStartDate	8/26/2023	2/6/2022
tblConstructionPhase	PhaseStartDate	7/14/2035	12/1/2022
tblConstructionPhase	PhaseStartDate	5/17/2036	10/1/2022
tblGrading	AcresOfGrading	0.00	300.00
tblGrading	AcresOfGrading	87.50	1,200.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00
tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	272.0804	108.6030	143.7174	0.4905	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						
Maximum	272.0804	108.6030	143.7174	0.4905	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	272.0804	108.6030	143.7174	0.4905	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						
Maximum	272.0804	108.6030	143.7174	0.4905	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						

	ROG	NOx	CO	SO2	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

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						
Energy	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						
Mobile	37.8080	162.6535	463.7061	1.7953	150.3335	1.2303	151.5637	40.2219	1.1438	41.3656						
Total	466.6972	202.8623	1,312.3287	3.7107	150.3335	111.6221	261.9556	40.2219	111.5356	151.7575						

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						
Energy	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						
Mobile	37.8080	162.6535	463.7061	1.7953	150.3335	1.2303	151.5637	40.2219	1.1438	41.3656						
<b>Total</b>	<b>466.6972</b>	<b>202.8623</b>	<b>1,312.3287</b>	<b>3.7107</b>	<b>150.3335</b>	<b>111.6221</b>	<b>261.9556</b>	<b>40.2219</b>	<b>111.6356</b>	<b>151.7575</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	Site Preparation	Site Preparation	1/1/2022	1/8/2022	5	5	
2	Grading	Grading	1/1/2022	2/5/2022	5	25	
3	Building Construction	Building Construction	2/6/2022	11/30/2022	5	213	
4	Paving	Paving	12/1/2022	12/15/2022	5	11	
5	Architectural Coating	Architectural Coating	10/1/2022	12/30/2022	5	65	

Acres of Grading (Site Preparation Phase): 300

Acres of Grading (Grading Phase): 1200

Acres of Paving: 0

Residential Indoor: 3,244,455; Residential Outdoor: 1,081,485; Non-Residential Indoor: 1,066,098; Non-Residential Outdoor: 355,366;

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	4	7.00	231	0.29
Grading	Excavators	3	8.00	158	0.38
Building Construction	Forklifts	6	8.00	89	0.20
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Generator Sets	2	8.00	84	0.74
Grading	Graders	3	8.00	187	0.41
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
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	14	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	21	1,209.00	269.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	21	1,209.00	269.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		242.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**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	lb/day										lb/day					
Fugitive Dust					87.7184	0.0000	87.7184	20.1115	0.0000	20.1115						
Off-Road	4.3367	45.2285	27.7557	0.0528		2.2102	2.2102		2.0334	2.0334						
<b>Total</b>	<b>4.3367</b>	<b>45.2285</b>	<b>27.7557</b>	<b>0.0528</b>	<b>87.7184</b>	<b>2.2102</b>	<b>89.9286</b>	<b>20.1115</b>	<b>2.0334</b>	<b>22.1448</b>						

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0713</b>	<b>0.0445</b>	<b>0.6270</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					87.7184	0.0000	87.7184	20.1115	0.0000	20.1115						
Off-Road	4.3367	45.2285	27.7557	0.0528		2.2102	2.2102		2.0334	2.0334						
<b>Total</b>	<b>4.3367</b>	<b>45.2285</b>	<b>27.7557</b>	<b>0.0528</b>	<b>87.7184</b>	<b>2.2102</b>	<b>89.9286</b>	<b>20.1115</b>	<b>2.0334</b>	<b>22.1448</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0713</b>	<b>0.0445</b>	<b>0.6270</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					62.9482	0.0000	62.9482	12.1169	0.0000	12.1169						
Off-Road	5.8237	63.2806	43.7980	0.0952		2.6528	2.6528		2.4406	2.4406						
<b>Total</b>	<b>5.8237</b>	<b>63.2806</b>	<b>43.7980</b>	<b>0.0952</b>	<b>62.9482</b>	<b>2.6528</b>	<b>65.6010</b>	<b>12.1169</b>	<b>2.4406</b>	<b>14.5575</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0792</b>	<b>0.0495</b>	<b>0.6967</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</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	lb/day										lb/day					
Fugitive Dust					62.9482	0.0000	62.9482	12.1169	0.0000	12.1169						
Off-Road	5.8237	63.2806	43.7980	0.0952		2.6528	2.6528		2.4406	2.4406						
<b>Total</b>	<b>5.8237</b>	<b>63.2806</b>	<b>43.7980</b>	<b>0.0952</b>	<b>62.9482</b>	<b>2.6528</b>	<b>65.6010</b>	<b>12.1169</b>	<b>2.4406</b>	<b>14.5575</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0792</b>	<b>0.0495</b>	<b>0.6967</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</b>						

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3419	40.0167	37.7342	0.0665		1.9860	1.9860		1.8659	1.8659						
<b>Total</b>	<b>4.3419</b>	<b>40.0167</b>	<b>37.7342</b>	<b>0.0665</b>		<b>1.9860</b>	<b>1.9860</b>		<b>1.8659</b>	<b>1.8659</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.4039	48.7068	11.5077	0.1360	5.8972	0.0895	5.9868	1.5936	0.0856	1.6792						
Worker	8.5742	5.9797	84.2318	0.2591	50.5245	0.1933	50.7178	12.9353	0.1780	13.1132						
<b>Total</b>	<b>10.9780</b>	<b>54.6865</b>	<b>95.7395</b>	<b>0.3950</b>	<b>56.4217</b>	<b>0.2828</b>	<b>56.7045</b>	<b>14.5289</b>	<b>0.2636</b>	<b>14.7925</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	lb/day										lb/day					
Off-Road	4.3419	40.0167	37.7342	0.0665		1.9860	1.9860		1.8659	1.8659						
<b>Total</b>	<b>4.3419</b>	<b>40.0167</b>	<b>37.7342</b>	<b>0.0665</b>		<b>1.9860</b>	<b>1.9860</b>		<b>1.8659</b>	<b>1.8659</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.4039	48.7068	11.5077	0.1360	5.8972	0.0895	5.9868	1.5936	0.0856	1.6792						
Worker	9.5742	5.9797	84.2318	0.2591	50.5245	0.1933	50.7178	12.9353	0.1780	13.1132						
<b>Total</b>	<b>10.9780</b>	<b>54.6865</b>	<b>95.7395</b>	<b>0.3950</b>	<b>56.4217</b>	<b>0.2828</b>	<b>56.7045</b>	<b>14.5289</b>	<b>0.2636</b>	<b>14.7925</b>						

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456						
<b>Total</b>	<b>0.0594</b>	<b>0.0371</b>	<b>0.5225</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456						
<b>Total</b>	<b>0.0594</b>	<b>0.0371</b>	<b>0.5225</b>	<b>1.6100e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>						

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	255.5977					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>255.8023</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.9582	0.5985	8.4301	0.0259	2.7050	0.0193	2.7243	0.7174	0.0178	0.7352						
<b>Total</b>	<b>0.9582</b>	<b>0.5985</b>	<b>8.4301</b>	<b>0.0259</b>	<b>2.7050</b>	<b>0.0193</b>	<b>2.7243</b>	<b>0.7174</b>	<b>0.0178</b>	<b>0.7352</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	lb/day										lb/day					
Archit. Coating	255.5977					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>255.8023</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.9582	0.5985	8.4301	0.0259	2.7050	0.0193	2.7243	0.7174	0.0178	0.7352						
<b>Total</b>	<b>0.9582</b>	<b>0.5985</b>	<b>8.4301</b>	<b>0.0259</b>	<b>2.7050</b>	<b>0.0193</b>	<b>2.7243</b>	<b>0.7174</b>	<b>0.0178</b>	<b>0.7352</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	lb/day										lb/day					
Mitigated	37.8080	162.6535	463.7061	1.7953	150.3335	1.2303	151.5637	40.2219	1.1438	41.3656						
Unmitigated	37.8080	162.6535	463.7061	1.7953	150.3335	1.2303	151.5637	40.2219	1.1438	41.3656						

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	7,960.72	8,649.28	7332.56	25,702,193	25,702,193
General Office Building	1,615.90	360.39	153.83	3,954,891	3,954,891
Hotel	539.22	540.54	392.70	1,237,175	1,237,175
Manufacturing	364.81	142.30	59.21	1,281,389	1,281,389
Movie Theater (No Matinee)	679.12	863.74	712.53	1,505,070	1,505,070
Regional Shopping Center	9,838.08	11,513.09	5815.30	20,552,821	20,552,821
Single Family Housing	2,084.88	2,170.29	1887.78	6,672,552	6,672,552
Unrefrigerated Warehouse-No Rail	224.78	224.78	224.78	963,361	963,361
<b>Total</b>	<b>23,307.51</b>	<b>24,464.40</b>	<b>16,578.69</b>	<b>61,869,452</b>	<b>61,869,452</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Hotel	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Manufacturing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Movie Theater (No Matinee)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Regional Shopping Center	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Unrefrigerated Warehouse-No Rail	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						
NaturalGas Unmitigated	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	51545.2	0.5559	4.7502	2.0214	0.0303		0.3841	0.3841		0.3841	0.3841						
General Office Building	1392.75	0.0150	0.1365	0.1147	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Hotel	15755.8	0.1699	1.5447	1.2975	9.2700e-003		0.1174	0.1174		0.1174	0.1174						
Manufacturing	8500.81	0.0917	0.8334	0.7001	5.0000e-003		0.0633	0.0633		0.0633	0.0633						
Movie Theater (No Matinee)	774.419	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003						
Regional Shopping Center	1401.34	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Single Family Housing	18357.7	0.1980	1.6918	0.7199	0.0108		0.1368	0.1368		0.1368	0.1368						
Unrefrigerated Warehouse-No Cool	744.148	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003						
<b>Total</b>		<b>1.0620</b>	<b>9.2429</b>	<b>5.0941</b>	<b>0.0579</b>		<b>0.7337</b>	<b>0.7337</b>		<b>0.7337</b>	<b>0.7337</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	lb/day										lb/day					
Apartments Low Rise	51.5452	0.5559	4.7502	2.0214	0.0303		0.3841	0.3841		0.3841	0.3841						
General Office Building	1.39275	0.0150	0.1365	0.1147	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Hotel	15.7558	0.1699	1.5447	1.2975	9.2700e-003		0.1174	0.1174		0.1174	0.1174						
Manufacturing	8.50081	0.0917	0.8334	0.7001	5.0000e-003		0.0633	0.0633		0.0633	0.0633						
Movie Theater (No Matinee)	0.774419	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003						
Regional Shopping Center	1.40134	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Single Family Housing	18.3577	0.1980	1.6918	0.7199	0.0108		0.1368	0.1368		0.1368	0.1368						
Unrefrigerated Warehouse-No Cool	0.744148	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003						
<b>Total</b>		<b>1.0620</b>	<b>9.2429</b>	<b>5.0941</b>	<b>0.0579</b>		<b>0.7337</b>	<b>0.7337</b>		<b>0.7337</b>	<b>0.7337</b>						

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						
Unmitigated	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5517					0.0000	0.0000		0.0000	0.0000						
Consumer Products	45.7961					0.0000	0.0000		0.0000	0.0000						
Hearth	373.9254	29.6079	725.7035	1.8513		109.0061	109.0061		109.0061	109.0061						
Landscaping	3.5540	1.3580	117.8251	6.2200e-003		0.6520	0.6520		0.6520	0.6520						
<b>Total</b>	<b>427.8272</b>	<b>30.9659</b>	<b>843.5285</b>	<b>1.8576</b>		<b>109.6581</b>	<b>109.6581</b>		<b>109.6581</b>	<b>109.6581</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	lb/day										lb/day					
Architectural Coating	4.5517					0.0000	0.0000		0.0000	0.0000						
Consumer Products	45.7961					0.0000	0.0000		0.0000	0.0000						
Hearth	373.9254	29.6079	725.7035	1.8513		109.0061	109.0061		109.0061	109.0061						
Landscaping	3.5540	1.3580	117.8251	6.2200e-003		0.6520	0.6520		0.6520	0.6520						
<b>Total</b>	<b>427.8272</b>	<b>30.9659</b>	<b>843.5285</b>	<b>1.8576</b>		<b>109.6581</b>	<b>109.6581</b>		<b>109.6581</b>	<b>109.6581</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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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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Rancho Cucamonga General Plan 2040 - Construction Emissions - South Coast AQMD Air District, Winter

**Rancho Cucamonga General Plan 2040 - Construction Emissions**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	146.50	1000sqft	3.36	146,500.00	0
Manufacturing	95.50	1000sqft	2.19	95,500.00	0
Unrefrigerated Warehouse-No Rail	133.80	1000sqft	3.07	133,800.00	0
Hotel	66.00	Room	2.20	95,832.00	0
Movie Theater (No Matinee)	8.70	1000sqft	0.20	8,700.00	0
Apartments Low Rise	1,208.00	Dwelling Unit	75.50	1,208,000.00	3455
Single Family Housing	219.00	Dwelling Unit	71.10	394,200.00	626
Regional Shopping Center	230.40	1000sqft	5.29	230,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics - This file is used for construction air emissions reporting only.
- Land Use - Regional Shopping Center was assumed under the Retail section.
- Construction Phase - Number of days for each phase was adjusted to fit annual construction timeline.
- Trips and VMT -
- Grading - Maximum disturbed
- Architectural Coating -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Woodstoves - SCAQMD prohibits any wood-burning devices, such as wood-burning fireplaces or stoves, from being installed in new construction under SCAQMD Rule 405
- Area Coating -
- Energy Use -
- Vehicle Trips - Model not used for operational emissions
- Off-road Equipment - Updated to match land uses
- Off-road Equipment - Updated to match land uses
- Off-road Equipment - Updated to match land uses

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	5.00
tblConstructionPhase	NumDays	310.00	25.00
tblConstructionPhase	NumDays	3,100.00	213.00
tblConstructionPhase	NumDays	220.00	11.00
tblConstructionPhase	NumDays	220.00	65.00
tblConstructionPhase	PhaseEndDate	6/17/2022	1/8/2022
tblConstructionPhase	PhaseEndDate	8/25/2023	2/5/2022
tblConstructionPhase	PhaseEndDate	7/13/2035	11/30/2022
tblConstructionPhase	PhaseEndDate	5/16/2036	12/15/2022
tblConstructionPhase	PhaseEndDate	3/20/2037	12/30/2022
tblConstructionPhase	PhaseStartDate	6/18/2022	1/1/2022
tblConstructionPhase	PhaseStartDate	8/26/2023	2/6/2022
tblConstructionPhase	PhaseStartDate	7/14/2035	12/1/2022
tblConstructionPhase	PhaseStartDate	5/17/2036	10/1/2022
tblGrading	AcresOfGrading	0.00	300.00
tblGrading	AcresOfGrading	87.50	1,200.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00
tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	273.1597	108.6119	135.5505	0.4680	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						
Maximum	273.1597	108.6119	135.5505	0.4680	151.0913	4.8660	155.9574	32.3410	4.4768	36.8177						



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/8/2022	5	5	
2	Grading	Grading	1/1/2022	2/5/2022	5	25	
3	Building Construction	Building Construction	2/6/2022	11/30/2022	5	213	
4	Paving	Paving	12/1/2022	12/15/2022	5	11	
5	Architectural Coating	Architectural Coating	10/1/2022	12/30/2022	5	65	

Acres of Grading (Site Preparation Phase): 300

Acres of Grading (Grading Phase): 1200

Acres of Paving: 0

Residential Indoor: 3,244,455; Residential Outdoor: 1,081,485; Non-Residential Indoor: 1,066,098; Non-Residential Outdoor: 355,366;

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	4	7.00	231	0.29
Grading	Excavators	3	8.00	158	0.38
Building Construction	Forklifts	6	8.00	89	0.20
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Generator Sets	2	8.00	84	0.74
Grading	Graders	3	8.00	187	0.41
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
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	14	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	21	1,209.00	269.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	21	1,209.00	269.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		242.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Site Preparation - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					87.7184	0.0000	87.7184	20.1115	0.0000	20.1115						
Off-Road	4.3367	45.2285	27.7557	0.0528		2.2102	2.2102		2.0334	2.0334						
<b>Total</b>	<b>4.3367</b>	<b>45.2285</b>	<b>27.7557</b>	<b>0.0528</b>	<b>87.7184</b>	<b>2.2102</b>	<b>89.9286</b>	<b>20.1115</b>	<b>2.0334</b>	<b>22.1448</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</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	lb/day										lb/day					
Fugitive Dust					87.7184	0.0000	87.7184	20.1115	0.0000	20.1115						
Off-Road	4.3367	45.2285	27.7557	0.0528		2.2102	2.2102		2.0334	2.0334						
<b>Total</b>	<b>4.3367</b>	<b>45.2285</b>	<b>27.7557</b>	<b>0.0528</b>	<b>87.7184</b>	<b>2.2102</b>	<b>89.9286</b>	<b>20.1115</b>	<b>2.0334</b>	<b>22.1448</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

### 3.3 Grading - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					62.9482	0.0000	62.9482	12.1169	0.0000	12.1169						
Off-Road	5.8237	63.2806	43.7980	0.0952		2.6528	2.6528		2.4406	2.4406						
<b>Total</b>	<b>5.8237</b>	<b>63.2806</b>	<b>43.7980</b>	<b>0.0952</b>	<b>62.9482</b>	<b>2.6528</b>	<b>65.6010</b>	<b>12.1169</b>	<b>2.4406</b>	<b>14.5575</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0868</b>	<b>0.0541</b>	<b>0.6250</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</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	lb/day										lb/day					
Fugitive Dust					62.9482	0.0000	62.9482	12.1169	0.0000	12.1169						
Off-Road	5.8237	63.2806	43.7980	0.0952		2.6528	2.6528		2.4406	2.4406						
<b>Total</b>	<b>5.8237</b>	<b>63.2806</b>	<b>43.7980</b>	<b>0.0952</b>	<b>62.9482</b>	<b>2.6528</b>	<b>65.6010</b>	<b>12.1169</b>	<b>2.4406</b>	<b>14.5575</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0868</b>	<b>0.0541</b>	<b>0.6250</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</b>						

### 3.4 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3419	40.0167	37.7342	0.0665		1.9860	1.9860		1.8659	1.8659						
<b>Total</b>	<b>4.3419</b>	<b>40.0167</b>	<b>37.7342</b>	<b>0.0665</b>		<b>1.9860</b>	<b>1.9860</b>		<b>1.8659</b>	<b>1.8659</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.4784	48.5123	12.8847	0.1321	5.8972	0.0925	5.9897	1.5936	0.0884	1.6821						
Worker	10.4876	6.5440	75.5561	0.2422	50.5245	0.1933	50.7178	12.9353	0.1780	13.1132						
<b>Total</b>	<b>11.9659</b>	<b>55.0563</b>	<b>88.4408</b>	<b>0.3743</b>	<b>56.4217</b>	<b>0.2857</b>	<b>56.7075</b>	<b>14.5289</b>	<b>0.2664</b>	<b>14.7953</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	lb/day										lb/day					
Off-Road	4.3419	40.0167	37.7342	0.0665		1.9860	1.9860		1.8659	1.8659						
<b>Total</b>	<b>4.3419</b>	<b>40.0167</b>	<b>37.7342</b>	<b>0.0665</b>		<b>1.9860</b>	<b>1.9860</b>		<b>1.8659</b>	<b>1.8659</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.4784	48.5123	12.8847	0.1321	5.8972	0.0925	5.9897	1.5936	0.0884	1.6821						
Worker	10.4876	6.5440	75.5561	0.2422	50.5245	0.1933	50.7178	12.9353	0.1780	13.1132						
<b>Total</b>	<b>11.9659</b>	<b>55.0563</b>	<b>88.4408</b>	<b>0.3743</b>	<b>56.4217</b>	<b>0.2857</b>	<b>56.7075</b>	<b>14.5289</b>	<b>0.2664</b>	<b>14.7953</b>						

### 3.5 Paving - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456						
<b>Total</b>	<b>0.0651</b>	<b>0.0406</b>	<b>0.4687</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456						
<b>Total</b>	<b>0.0651</b>	<b>0.0406</b>	<b>0.4687</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2000e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1000e-003</b>	<b>0.0456</b>						



**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	255.5977					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>255.8023</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.0496	0.6549	7.5619	0.0242	2.7050	0.0193	2.7243	0.7174	0.0178	0.7352						
<b>Total</b>	<b>1.0496</b>	<b>0.6549</b>	<b>7.5619</b>	<b>0.0242</b>	<b>2.7050</b>	<b>0.0193</b>	<b>2.7243</b>	<b>0.7174</b>	<b>0.0178</b>	<b>0.7352</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	lb/day										lb/day					
Archit. Coating	255.5977					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>255.8023</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	1.0496	0.6549	7.5619	0.0242	2.7050	0.0193	2.7243	0.7174	0.0178	0.7352						
<b>Total</b>	<b>1.0496</b>	<b>0.6549</b>	<b>7.5619</b>	<b>0.0242</b>	<b>2.7050</b>	<b>0.0193</b>	<b>2.7243</b>	<b>0.7174</b>	<b>0.0178</b>	<b>0.7352</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	lb/day										lb/day					
Mitigated	35.7313	165.1822	435.9689	1.6986	150.3335	1.2371	151.5706	40.2219	1.1504	41.3722						
Unmitigated	35.7313	165.1822	435.9689	1.6986	150.3335	1.2371	151.5706	40.2219	1.1504	41.3722						

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,960.72	8,649.28	7332.56	25,702,193	25,702,193
General Office Building	1,615.90	360.39	153.83	3,954,891	3,954,891
Hotel	539.22	540.54	392.70	1,237,175	1,237,175
Manufacturing	364.81	142.30	59.21	1,281,389	1,281,389
Movie Theater (No Matinee)	679.12	863.74	712.53	1,505,070	1,505,070
Regional Shopping Center	9,838.08	11,513.09	5815.30	20,552,821	20,552,821
Single Family Housing	2,084.88	2,170.29	1887.78	6,672,552	6,672,552
Unrefrigerated Warehouse-No Rail	224.78	224.78	224.78	963,361	963,361
Total	23,307.51	24,464.40	16,578.69	61,869,452	61,869,452

#### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Hotel	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Manufacturing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Movie Theater (No Matinee)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Regional Shopping Center	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Unrefrigerated Warehouse-No Rail	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						
NaturalGas Unmitigated	1.0620	9.2429	5.0941	0.0579		0.7337	0.7337		0.7337	0.7337						

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	51545.2	0.5559	4.7502	2.0214	0.0303		0.3841	0.3841		0.3841	0.3841						
General Office Building	1392.75	0.0150	0.1365	0.1147	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Hotel	15755.8	0.1699	1.5447	1.2975	9.2700e-003		0.1174	0.1174		0.1174	0.1174						
Manufacturing	8500.81	0.0917	0.8334	0.7001	5.0000e-003		0.0633	0.0633		0.0633	0.0633						
Movie Theater (No Matinee)	774.419	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003						
Regional Shopping Center	1401.34	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Single Family Housing	18357.7	0.1980	1.6918	0.7199	0.0108		0.1368	0.1368		0.1368	0.1368						
Unrefrigerated Warehouse-No Del	744.148	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003						
<b>Total</b>		<b>1.0620</b>	<b>9.2429</b>	<b>5.0941</b>	<b>0.0579</b>		<b>0.7337</b>	<b>0.7337</b>		<b>0.7337</b>	<b>0.7337</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	lb/day										lb/day					
Apartments Low Rise	51.5452	0.5559	4.7502	2.0214	0.0303		0.3841	0.3841		0.3841	0.3841						
General Office Building	1.39275	0.0150	0.1365	0.1147	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Hotel	15.7558	0.1699	1.5447	1.2975	9.2700e-003		0.1174	0.1174		0.1174	0.1174						
Manufacturing	8.50081	0.0917	0.8334	0.7001	5.0000e-003		0.0633	0.0633		0.0633	0.0633						
Movie Theater (No Matinee)	0.774419	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003						
Regional Shopping Center	1.40134	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104						
Single Family Housing	18.3577	0.1980	1.6918	0.7199	0.0108		0.1368	0.1368		0.1368	0.1368						
Unrefrigerated Warehouse-No Del	0.744148	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003						
<b>Total</b>		<b>1.0620</b>	<b>9.2429</b>	<b>5.0941</b>	<b>0.0579</b>		<b>0.7337</b>	<b>0.7337</b>		<b>0.7337</b>	<b>0.7337</b>						

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						
Unmitigated	427.8272	30.9659	843.5285	1.8576		109.6582	109.6582		109.6582	109.6582						

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5517					0.0000	0.0000		0.0000	0.0000						
Consumer Products	45.7961					0.0000	0.0000		0.0000	0.0000						
Hearth	373.9254	29.6079	725.7035	1.8513		109.0061	109.0061		109.0061	109.0061						
Landscaping	3.5540	1.3580	117.8251	6.2200e-003		0.6520	0.6520		0.6520	0.6520						
<b>Total</b>	<b>427.8272</b>	<b>30.9659</b>	<b>843.5285</b>	<b>1.8576</b>		<b>109.6581</b>	<b>109.6581</b>		<b>109.6581</b>	<b>109.6581</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	lb/day										lb/day					
Architectural Coating	4.5517					0.0000	0.0000		0.0000	0.0000						
Consumer Products	45.7961					0.0000	0.0000		0.0000	0.0000						
Hearth	373.9254	29.6079	725.7035	1.8513		109.0061	109.0061		109.0061	109.0061						
Landscaping	3.5540	1.3580	117.8251	6.2200e-003		0.6520	0.6520		0.6520	0.6520						
<b>Total</b>	<b>427.8272</b>	<b>30.9659</b>	<b>843.5285</b>	<b>1.8576</b>		<b>109.6581</b>	<b>109.6581</b>		<b>109.6581</b>	<b>109.6581</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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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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Rancho Cucamonga General Plan 2040 - Operational Emissions - Mobile Source - South Coast AQMD Air District, Summer

**Rancho Cucamonga General Plan 2040 - Operational Emissions - Mobile Source  
South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10	<b>Operational Year</b>	2040		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - This file is used for mobile source air emissions from operations. Model run not used for GHGs

Land Use -

Construction Phase -

Off-road Equipment -

Trips and VMT -

Grading -

Vehicle Trips - Trip rates and lengths updated to arrive at modeled VMT provided by traffic analysis

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors -

Consumer Products -

Area Coating -

Energy Use -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	HO_TL	8.70	67.50
tblVehicleTrips	HS_TL	5.90	74.75
tblVehicleTrips	HW_TL	14.70	75.00
tblVehicleTrips	ST_TR	9.91	12,000.00
tblVehicleTrips	SU_TR	8.62	11,947.00
tblVehicleTrips	WD_TR	9.52	12,000.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.4572	7.0258	7.8177	0.0132	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						
Maximum	2.4572	7.0258	7.8177	0.0132	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.4572	7.0258	7.8177	0.0132	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						
Maximum	2.4572	7.0258	7.8177	0.0132	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						

	ROG	NOx	CO	SO2	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

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						
Energy	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
Mobile	40.6439	208.6707	838.5361	5.1431	592.8441	1.9809	594.8249	158.5723	1.8453	160.4176						
Total	40.9480	208.7001	839.1304	5.1444	592.8441	2.0583	594.9024	158.5723	1.9228	160.4951						

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						
Energy	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		5.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
Mobile	40.6439	208.6707	838.5364	5.1431	592.8441	1.9809	594.8249	158.5723	1.8453	160.4176						
<b>Total</b>	<b>40.9480</b>	<b>208.7001</b>	<b>839.1304</b>	<b>5.1444</b>	<b>592.8441</b>	<b>2.0583</b>	<b>594.9024</b>	<b>158.5723</b>	<b>1.9228</b>	<b>160.4951</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/3/2022	5	1	
2	Grading	Grading	1/4/2022	1/5/2022	5	2	
3	Building Construction	Building Construction	1/6/2022	5/25/2022	5	100	
4	Paving	Paving	5/26/2022	6/1/2022	5	5	
5	Architectural Coating	Architectural Coating	6/2/2022	6/8/2022	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	
Paving	Cement and Mortar Mixers		4	6.00	9	0.56
Site Preparation	Tractors/Loaders/Backhoes		1	8.00	97	0.37
Grading	Concrete/Industrial Saws		1	8.00	81	0.73
Grading	Rubber Tired Dozers		1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes		2	6.00	97	0.37
Building Construction	Cranes		1	4.00	231	0.29
Building Construction	Forklifts		2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes		2	8.00	97	0.37
Site Preparation	Graders		1	8.00	187	0.41



Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367						
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0198	0.0124	0.1742	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152						
<b>Total</b>	<b>0.0198</b>	<b>0.0124</b>	<b>0.1742</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.0000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.7000e-004</b>	<b>0.0152</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367						
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0198	0.0124	0.1742	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152						
<b>Total</b>	<b>0.0198</b>	<b>0.0124</b>	<b>0.1742</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.0000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.7000e-004</b>	<b>0.0152</b>						

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138						
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225						
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.3375</b>	<b>1.0903</b>	<b>0.4138</b>	<b>0.3225</b>	<b>0.7363</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.0396	0.0247	0.3484	1.0700e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304							
<b>Total</b>	<b>0.0396</b>	<b>0.0247</b>	<b>0.3484</b>	<b>1.0700e-003</b>	<b>0.1118</b>	<b>8.0000e-004</b>	<b>0.1126</b>	<b>0.0296</b>	<b>7.4000e-004</b>	<b>0.0304</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	lb/day										lb/day						
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138							
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225							
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.3375</b>	<b>1.0903</b>	<b>0.4138</b>	<b>0.3225</b>	<b>0.7363</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.0396	0.0247	0.3484	1.0700e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304							
<b>Total</b>	<b>0.0396</b>	<b>0.0247</b>	<b>0.3484</b>	<b>1.0700e-003</b>	<b>0.1118</b>	<b>8.0000e-004</b>	<b>0.1126</b>	<b>0.0296</b>	<b>7.4000e-004</b>	<b>0.0304</b>							

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422							
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422						
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**3.5 Paving - 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
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Category	lb/day										lb/day						
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758							
Paving	0.0000					0.0000	0.0000		0.0000	0.0000							
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</b>							

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0713</b>	<b>0.0445</b>	<b>0.6270</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						

Total	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
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### 3.6 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.2526					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>2.4572</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Archit. Coating	2.2526					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>2.4572</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Mitigated	40.6439	208.6707	838.5364	5.1431	592.8441	1.9809	594.8249	158.5723	1.8453	160.4176						
Unmitigated	40.6439	208.6707	838.5364	5.1431	592.8441	1.9809	594.8249	158.5723	1.8453	160.4176						

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	12,000.00	12,000.00	11,947.00	278,591,891	278,591,891
<b>Total</b>	<b>12,000.00</b>	<b>12,000.00</b>	<b>11,947.00</b>	<b>278,591,891</b>	<b>278,591,891</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	75.00	74.75	67.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
NaturalGas Unmitigated	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	83.8251	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
<b>Total</b>		<b>9.0000e-004</b>	<b>7.7300e-003</b>	<b>3.2900e-003</b>	<b>5.0000e-005</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</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	lb/day										lb/day					
Single Family Housing	0.0838251	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
<b>Total</b>		<b>9.0000e-004</b>	<b>7.7300e-003</b>	<b>3.2900e-003</b>	<b>5.0000e-005</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>						

## 6.0 Area Detail

### 6.1 Mitigation Measures Area



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						
Unmitigated	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.0900e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0356					0.0000	0.0000		0.0000	0.0000						
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764						
Landscaping	2.4600e-003	9.5000e-004	0.0821	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004						
<b>Total</b>	<b>0.3032</b>	<b>0.0217</b>	<b>0.5907</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</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	lb/day										lb/day					
Architectural Coating	3.0900e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0356					0.0000	0.0000		0.0000	0.0000						
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764						
Landscaping	2.4600e-003	9.5000e-004	0.0821	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004						
<b>Total</b>	<b>0.3032</b>	<b>0.0217</b>	<b>0.5907</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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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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Rancho Cucamonda General Plan 2040 - Operational Emissions - Mobile Source - South Coast AQMD Air District, Winter

**Rancho Cucamonda General Plan 2040 - Operational Emissions - Mobile Source  
South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10	<b>Operational Year</b>	2040		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - This file is used for mobile source air emissions from operations. Model run not used for GHGs

Land Use -

Construction Phase -

Off-road Equipment -

Trips and VMT -

Grading -

Vehicle Trips - Trip rates and lengths updated to arrive at modeled VMT provided by traffic analysis

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors -

Consumer Products -

Area Coating -

Energy Use -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	HO_TL	8.70	67.50
tblVehicleTrips	HS_TL	5.90	74.75
tblVehicleTrips	HW_TL	14.70	75.00
tblVehicleTrips	ST_TR	9.91	12,000.00
tblVehicleTrips	SU_TR	8.62	11,947.00
tblVehicleTrips	WD_TR	9.52	12,000.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.4572	7.0258	7.7818	0.0131	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						
Maximum	2.4572	7.0258	7.7818	0.0131	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.4572	7.0258	7.7818	0.0131	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						
Maximum	2.4572	7.0258	7.7818	0.0131	0.8645	0.3719	1.2029	0.4434	0.3422	0.7667						

	ROG	NOx	CO	SO2	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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						
Energy	3.0000e-004	7.7300e-003	3.2900e-003	3.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
Mobile	39.8387	216.6327	757.8144	4.9003	592.8441	1.9816	594.8257	158.5723	1.8461	160.4183						
Total	40.1428	216.6622	758.4084	4.9017	592.8441	2.0591	594.9031	158.5723	1.9235	160.4958						

**Mitigated Operational**

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

Area	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769							
Energy	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004							
Mobile	39.8387	216.6327	757.8144	4.9003	592.8441	1.9816	594.8257	158.5723	1.8461	160.4183							
<b>Total</b>	<b>40.1428</b>	<b>216.6622</b>	<b>758.4084</b>	<b>4.9017</b>	<b>592.8441</b>	<b>2.0591</b>	<b>594.9031</b>	<b>158.5723</b>	<b>1.9235</b>	<b>160.4958</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/3/2022	5	1	
2	Grading	Grading	1/4/2022	1/5/2022	5	2	
3	Building Construction	Building Construction	1/6/2022	5/25/2022	5	10	
4	Paving	Paving	5/26/2022	6/1/2022	5	5	
5	Architectural Coating	Architectural Coating	6/2/2022	6/8/2022	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367						
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>						

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0217	0.0135	0.1562	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152						
<b>Total</b>	<b>0.0217</b>	<b>0.0135</b>	<b>0.1562</b>	<b>5.0000e-004</b>	<b>0.0559</b>	<b>4.0000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.7000e-004</b>	<b>0.0152</b>						

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367						
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0217	0.0135	0.1562	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152						
<b>Total</b>	<b>0.0217</b>	<b>0.0135</b>	<b>0.1562</b>	<b>5.0000e-004</b>	<b>0.0559</b>	<b>4.0000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>3.7000e-004</b>	<b>0.0152</b>						

### 3.3 Grading - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138						
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225						
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.3375</b>	<b>1.0903</b>	<b>0.4138</b>	<b>0.3225</b>	<b>0.7363</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0434	0.0271	0.3125	1.0000e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304						
<b>Total</b>	<b>0.0434</b>	<b>0.0271</b>	<b>0.3125</b>	<b>1.0000e-003</b>	<b>0.1118</b>	<b>8.0000e-004</b>	<b>0.1126</b>	<b>0.0296</b>	<b>7.4000e-004</b>	<b>0.0304</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138						
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225						
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.3375</b>	<b>1.0903</b>	<b>0.4138</b>	<b>0.3225</b>	<b>0.7363</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0434	0.0271	0.3125	1.0000e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304						
<b>Total</b>	<b>0.0434</b>	<b>0.0271</b>	<b>0.3125</b>	<b>1.0000e-003</b>	<b>0.1118</b>	<b>8.0000e-004</b>	<b>0.1126</b>	<b>0.0296</b>	<b>7.4000e-004</b>	<b>0.0304</b>						

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422						
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422						
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</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	lb/day										lb/day					

Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758							
Paving	0.0000					0.0000	0.0000		0.0000	0.0000							
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.2526					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>2.4572</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Archit. Coating	2.2526					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
<b>Total</b>	<b>2.4572</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
Mitigated	39.8387	216.6327	757.8144	4.9003	592.8441	1.9816	594.8257	158.5723	1.8461	160.4183						
Unmitigated	39.8387	216.6327	757.8144	4.9003	592.8441	1.9816	594.8257	158.5723	1.8461	160.4183						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	12,000.00	12,000.00	11,947.00	278,591,891	278,591,891
<b>Total</b>	<b>12,000.00</b>	<b>12,000.00</b>	<b>11,947.00</b>	<b>278,591,891</b>	<b>278,591,891</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	75.00	74.75	67.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
NaturalGas Unmitigated	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	83.8251	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
Total		9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0838251	9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						
Total		9.0000e-004	7.7300e-003	3.2900e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						
Unmitigated	0.3032	0.0217	0.5907	1.3000e-003		0.0769	0.0769		0.0769	0.0769						

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.0900e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0356					0.0000	0.0000		0.0000	0.0000						
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764						
Landscaping	2.4600e-003	9.5000e-004	0.0821	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004						
<b>Total</b>	<b>0.3032</b>	<b>0.0217</b>	<b>0.5907</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</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	lb/day										lb/day					
Architectural Coating	3.0900e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0356					0.0000	0.0000		0.0000	0.0000						
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764						
Landscaping	2.4600e-003	9.5000e-004	0.0821	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004						
<b>Total</b>	<b>0.3032</b>	<b>0.0217</b>	<b>0.5907</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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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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Rancho Cucamonga General Plan 2040 - Operational Emissions - South Coast AQMD Air District, Summer

**Rancho Cucamonga General Plan 2040 - Operational Emissions**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,636.67	1000sqft	60.53	2,636,670.00	0
Manufacturing	1,719.20	1000sqft	39.47	1,719,200.00	0
Unrefrigerated Warehouse-No Rail	2,408.00	1000sqft	55.28	2,408,000.00	0
Hotel	1,179.00	Room	39.30	1,711,908.00	0
Movie Theater (No Matinee)	156.00	1000sqft	3.58	156,000.00	0
Apartments Low Rise	21,741.00	Dwelling Unit	1,358.81	21,741,000.00	62179
Single Family Housing	3,944.00	Dwelling Unit	1,280.52	7,099,200.00	11280
Regional Shopping Center	4,147.20	1000sqft	95.21	4,147,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Model run used for non-mobile operational air emissions only. This analysis is not used for the GHG assessment.

Land Use - Regional Shopping Center was assumed under the Retail section.

Construction Phase - Model run not used for construction emissions estimates

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Woodstoves - SCAQMD prohibits any wood-burning devices, such as wood-burning fireplaces or stoves, from being installed in new construction under SCAQMD Rule 415

Area Coating -

Energy Use - Adjusted energy values for Title 24 2019 Energy Efficiency standards.

Water And Wastewater -

Solid Waste -

Vehicle Trips - Operational mobile source emissions modeled separately

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	877.14	186.49
tblEnergyUse	T24E	3.07	2.74

tblEnergyUse	T24E	6.47	5.78
tblEnergyUse	T24E	2.20	1.96
tblEnergyUse	T24E	2.20	1.96
tblEnergyUse	T24E	4.58	4.09
tblEnergyUse	T24E	951.67	199.81
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	9,544.50	9,093.44
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	55.15	54.61
tblEnergyUse	T24NG	15.36	15.21
tblEnergyUse	T24NG	15.36	15.21
tblEnergyUse	T24NG	1.92	1.90
tblEnergyUse	T24NG	24,566.15	22,254.41
tblEnergyUse	T24NG	2.00	1.98
tblFireplaces	NumberGas	18,479.85	29,741.00
tblFireplaces	NumberGas	3,352.40	3,944.00
tblFireplaces	NumberNoFireplace	2,174.10	0.00
tblFireplaces	NumberNoFireplace	394.40	0.00
tblFireplaces	NumberWood	1,087.05	0.00
tblFireplaces	NumberWood	197.20	0.00
tblVehicleEF	HHD	0.38	1.03
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.50	0.25
tblVehicleEF	HHD	0.93	0.24
tblVehicleEF	HHD	3.40	88.88
tblVehicleEF	HHD	12.51	69.67
tblVehicleEF	HHD	1.42	1.20
tblVehicleEF	HHD	19.44	2.47
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tblVehicleEF	HHD	1.1600e-004	2.1800e-004
tblVehicleEF	HHD	0.39	5.84
tblVehicleEF	HHD	0.08	0.01
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.1600e-004	2.1800e-004
tblVehicleEF	HHD	0.45	7.41
tblVehicleEF	HHD	0.17	0.04
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	0.36	1.05
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.09	0.25
tblVehicleEF	HHD	0.94	0.24



tblVehicleEF	HHD	3.23	87.76
tblVehicleEF	HHD	12.91	66.26
tblVehicleEF	HHD	1.34	1.13
tblVehicleEF	HHD	19.43	2.47
tblVehicleEF	HHD	1.5280e-003	0.02
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.2420e-003	0.02
tblVehicleEF	HHD	1.2700e-004	0.00
tblVehicleEF	HHD	1.8400e-004	2.4000e-004
tblVehicleEF	HHD	0.36	6.19
tblVehicleEF	HHD	0.08	0.01
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.8400e-004	2.4000e-004
tblVehicleEF	HHD	0.43	7.81
tblVehicleEF	HHD	0.17	0.04
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	0.42	1.01
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
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tblVehicleEF	HHD	0.93	0.24
tblVehicleEF	HHD	3.43	90.43
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tblVehicleEF	HHD	1.40	1.18
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tblVehicleEF	HHD	2.2060e-003	0.03
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.2420e-003	0.02
tblVehicleEF	HHD	1.2700e-004	0.00
tblVehicleEF	HHD	1.0000e-004	2.1700e-004
tblVehicleEF	HHD	0.42	5.36
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.06	0.00
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tblVehicleEF	LDA	1.4650e-003	1.1560e-003
tblVehicleEF	LDA	6.7600e-004	0.03
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tblVehicleEF	LDA	0.27	0.04
tblVehicleEF	LDA	0.33	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.16
tblVehicleEF	LDA	0.04	8.2390e-003

tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	3.6840e-003	3.4840e-003
tblVehicleEF	LDA	9.1230e-003	0.13
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	5.3550e-003	5.0830e-003
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tblVehicleEF	LDA	1.5800e-003	1.2040e-003
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tblVehicleEF	LDA	0.00	0.62
tblVehicleEF	LDA	0.31	0.04
tblVehicleEF	LDA	0.28	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.15
tblVehicleEF	LDA	0.04	8.2390e-003
tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.02	1.13
tblVehicleEF	LDA	3.9680e-003	3.5900e-003
tblVehicleEF	LDA	8.0950e-003	0.12
tblVehicleEF	LDA	0.02	1.13
tblVehicleEF	LDA	5.7680e-003	5.2360e-003
tblVehicleEF	LDA	8.8630e-003	0.13
tblVehicleEF	LDA	1.4320e-003	1.1440e-003
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tblVehicleEF	LDA	0.00	0.48
tblVehicleEF	LDA	0.26	0.04
tblVehicleEF	LDA	0.34	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.16
tblVehicleEF	LDA	0.04	8.2390e-003
tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	3.6020e-003	3.4570e-003
tblVehicleEF	LDA	9.3310e-003	0.14
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	5.2340e-003	5.0420e-003
tblVehicleEF	LDA	0.01	0.15
tblVehicleEF	LDT1	2.3180e-003	1.7300e-003
tblVehicleEF	LDT1	1.3490e-003	0.04
tblVehicleEF	LDT1	0.00	0.63
tblVehicleEF	LDT1	0.39	0.04
tblVehicleEF	LDT1	0.50	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.20

tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.03	1.72
tblVehicleEF	LDT1	5.7460e-003	5.9430e-003
tblVehicleEF	LDT1	0.02	0.17
tblVehicleEF	LDT1	0.03	1.72
tblVehicleEF	LDT1	8.3810e-003	8.6720e-003
tblVehicleEF	LDT1	0.02	0.19
tblVehicleEF	LDT1	2.4870e-003	1.7990e-003
tblVehicleEF	LDT1	1.1980e-003	0.04
tblVehicleEF	LDT1	0.00	0.76
tblVehicleEF	LDT1	0.43	0.04
tblVehicleEF	LDT1	0.43	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.02	0.18
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.04	1.85
tblVehicleEF	LDT1	6.1650e-003	6.1190e-003
tblVehicleEF	LDT1	0.02	0.15
tblVehicleEF	LDT1	0.04	1.85
tblVehicleEF	LDT1	8.9920e-003	8.9280e-003
tblVehicleEF	LDT1	0.02	0.17
tblVehicleEF	LDT1	2.2660e-003	1.7130e-003
tblVehicleEF	LDT1	1.3800e-003	0.04
tblVehicleEF	LDT1	0.00	0.59
tblVehicleEF	LDT1	0.37	0.04
tblVehicleEF	LDT1	0.52	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.20
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.02	1.72
tblVehicleEF	LDT1	5.6180e-003	5.8940e-003
tblVehicleEF	LDT1	0.02	0.18
tblVehicleEF	LDT1	0.02	1.72
tblVehicleEF	LDT1	8.1950e-003	8.6010e-003
tblVehicleEF	LDT1	0.02	0.19
tblVehicleEF	LDT2	2.2710e-003	1.6100e-003
tblVehicleEF	LDT2	1.2060e-003	0.04
tblVehicleEF	LDT2	0.00	0.62
tblVehicleEF	LDT2	0.42	0.04
tblVehicleEF	LDT2	0.50	0.00
tblVehicleEF	LDT2	0.03	0.03

tblVehicleEF	LDT2	0.02	0.20
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.02	1.05
tblVehicleEF	LDT2	5.6570e-003	5.1830e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	0.02	1.05
tblVehicleEF	LDT2	8.2420e-003	7.5440e-003
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LDT2	2.4430e-003	1.6750e-003
tblVehicleEF	LDT2	1.1080e-003	0.04
tblVehicleEF	LDT2	0.00	0.75
tblVehicleEF	LDT2	0.47	0.04
tblVehicleEF	LDT2	0.46	0.00
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.04	1.13
tblVehicleEF	LDT2	6.0820e-003	5.3350e-003
tblVehicleEF	LDT2	0.01	0.15
tblVehicleEF	LDT2	0.04	1.13
tblVehicleEF	LDT2	8.8620e-003	7.7660e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	2.2190e-003	1.5940e-003
tblVehicleEF	LDT2	1.2270e-003	0.04
tblVehicleEF	LDT2	0.00	0.57
tblVehicleEF	LDT2	0.40	0.04
tblVehicleEF	LDT2	0.51	0.00
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.21
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.02	1.04
tblVehicleEF	LDT2	5.5290e-003	5.1410e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	0.02	1.04
tblVehicleEF	LDT2	8.0550e-003	7.4830e-003
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8850e-003	1.2420e-003
tblVehicleEF	LHD1	4.0890e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12

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tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	0.32	0.24
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
tblVehicleEF	LHD1	4.3400e-004	7.1000e-005
tblVehicleEF	LHD1	9.7300e-004	1.16
tblVehicleEF	LHD1	0.01	0.22
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	9.7300e-004	1.16
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.05	0.06
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8960e-003	1.2500e-003
tblVehicleEF	LHD1	3.9400e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12
tblVehicleEF	LHD1	0.89	2.59
tblVehicleEF	LHD1	0.05	0.45
tblVehicleEF	LHD1	0.14	0.12
tblVehicleEF	LHD1	0.31	0.23
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
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tblVehicleEF	LHD1	1.5200e-003	1.24
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tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.5200e-003	1.24
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8820e-003	1.2400e-003
tblVehicleEF	LHD1	4.1130e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12
tblVehicleEF	LHD1	0.94	2.59
tblVehicleEF	LHD1	0.05	0.45
tblVehicleEF	LHD1	0.15	0.12

tblVehicleEF	LHD1	0.32	0.24
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
tblVehicleEF	LHD1	4.3400e-004	7.1000e-005
tblVehicleEF	LHD1	8.7000e-004	1.16
tblVehicleEF	LHD1	0.01	0.22
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	8.7000e-004	1.16
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6910e-003	2.0280e-003
tblVehicleEF	LHD2	2.0450e-003	5.5660e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
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tblVehicleEF	LHD2	0.05	0.27
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tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	5.3000e-004	0.67
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	5.3000e-004	0.67
tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6990e-003	2.0310e-003
tblVehicleEF	LHD2	2.0320e-003	5.3860e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	0.77	1.74
tblVehicleEF	LHD2	0.05	0.77
tblVehicleEF	LHD2	0.05	0.25
tblVehicleEF	LHD2	0.18	0.11
tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	8.2300e-004	0.70
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
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tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6890e-003	2.0270e-003
tblVehicleEF	LHD2	2.0470e-003	5.5990e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	0.81	1.74
tblVehicleEF	LHD2	0.05	0.77
tblVehicleEF	LHD2	0.05	0.26
tblVehicleEF	LHD2	0.19	0.11
tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	4.8300e-004	0.66
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	4.8300e-004	0.66
tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	MCY	0.52	0.15
tblVehicleEF	MCY	0.14	0.13
tblVehicleEF	MCY	0.00	10.41
tblVehicleEF	MCY	17.39	9.1390e-003
tblVehicleEF	MCY	9.87	0.00
tblVehicleEF	MCY	1.12	0.47
tblVehicleEF	MCY	0.31	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	1.21	3.62
tblVehicleEF	MCY	2.41	0.88
tblVehicleEF	MCY	1.95	0.91
tblVehicleEF	MCY	1.21	3.62

tblVehicleEF	MCY	3.03	1.09
tblVehicleEF	MCY	2.12	0.99
tblVehicleEF	MCY	0.52	0.15
tblVehicleEF	MCY	0.13	0.12
tblVehicleEF	MCY	0.00	10.56
tblVehicleEF	MCY	17.04	9.1390e-003
tblVehicleEF	MCY	8.98	0.00
tblVehicleEF	MCY	0.98	0.41
tblVehicleEF	MCY	0.29	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	2.02	4.48
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tblVehicleEF	MCY	1.76	0.83
tblVehicleEF	MCY	2.02	4.48
tblVehicleEF	MCY	2.98	1.11
tblVehicleEF	MCY	1.92	0.90
tblVehicleEF	MCY	0.53	0.14
tblVehicleEF	MCY	0.15	0.13
tblVehicleEF	MCY	0.00	10.36
tblVehicleEF	MCY	17.40	9.1390e-003
tblVehicleEF	MCY	10.00	0.00
tblVehicleEF	MCY	1.10	0.46
tblVehicleEF	MCY	0.31	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	1.27	3.69
tblVehicleEF	MCY	2.42	0.87
tblVehicleEF	MCY	1.98	0.92
tblVehicleEF	MCY	1.27	3.69
tblVehicleEF	MCY	3.04	1.09
tblVehicleEF	MCY	2.16	1.00
tblVehicleEF	MDV	3.2900e-003	1.7710e-003
tblVehicleEF	MDV	2.5680e-003	0.05
tblVehicleEF	MDV	0.00	0.65
tblVehicleEF	MDV	0.52	0.04
tblVehicleEF	MDV	0.73	0.00
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.05	1.22
tblVehicleEF	MDV	8.3090e-003	5.9200e-003
tblVehicleEF	MDV	0.03	0.19



tblVehicleEF	MDV	0.05	1.22
tblVehicleEF	MDV	0.01	8.6170e-003
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MDV	3.5380e-003	1.8440e-003
tblVehicleEF	MDV	2.3090e-003	0.04
tblVehicleEF	MDV	0.00	0.79
tblVehicleEF	MDV	0.59	0.04
tblVehicleEF	MDV	0.65	0.00
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.08	1.32
tblVehicleEF	MDV	8.9240e-003	6.0970e-003
tblVehicleEF	MDV	0.03	0.17
tblVehicleEF	MDV	0.05	1.32
tblVehicleEF	MDV	0.01	8.8750e-003
tblVehicleEF	MDV	0.03	0.19
tblVehicleEF	MDV	3.2150e-003	1.7530e-003
tblVehicleEF	MDV	2.6210e-003	0.05
tblVehicleEF	MDV	0.00	0.60
tblVehicleEF	MDV	0.50	0.04
tblVehicleEF	MDV	0.75	0.00
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.04	0.23
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.04	1.22
tblVehicleEF	MDV	8.1240e-003	5.8720e-003
tblVehicleEF	MDV	0.04	0.19
tblVehicleEF	MDV	0.04	1.22
tblVehicleEF	MDV	0.01	8.5460e-003
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MH	3.5930e-003	2.7410e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.15
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.55	0.83
tblVehicleEF	MH	0.51	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.33	1.41

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.33	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.20	0.08
tblVehicleEF	MH	3.6610e-003	2.7810e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.16
tblVehicleEF	MH	0.18	0.10
tblVehicleEF	MH	2.84	0.00
tblVehicleEF	MH	0.52	0.78
tblVehicleEF	MH	0.49	0.27
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.51	1.51
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.07
tblVehicleEF	MH	0.51	1.51
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.19	0.08
tblVehicleEF	MH	3.5760e-003	2.7320e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.15
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	3.04	0.00
tblVehicleEF	MH	0.54	0.81
tblVehicleEF	MH	0.52	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.31	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.31	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.20	0.08
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7430e-003	9.2270e-003
tblVehicleEF	MHD	0.03	4.9980e-003
tblVehicleEF	MHD	0.32	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.58	8.92
tblVehicleEF	MHD	0.36	8.97
tblVehicleEF	MHD	0.58	0.27

tblVehicleEF	MHD	11.00	1.12
tblVehicleEF	MHD	3.1000e-005	3.0110e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005
tblVehicleEF	MHD	6.9600e-004	0.34
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3480e-003
tblVehicleEF	MHD	0.18	0.02
tblVehicleEF	MHD	6.9600e-004	0.34
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7510e-003	9.2360e-003
tblVehicleEF	MHD	0.03	4.8310e-003
tblVehicleEF	MHD	0.23	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.46	8.31
tblVehicleEF	MHD	0.38	8.53
tblVehicleEF	MHD	0.54	0.25
tblVehicleEF	MHD	10.98	1.12
tblVehicleEF	MHD	2.6000e-005	2.6960e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005
tblVehicleEF	MHD	1.0970e-003	0.36
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3780e-003
tblVehicleEF	MHD	0.17	0.02
tblVehicleEF	MHD	1.0970e-003	0.36
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7410e-003	9.2230e-003
tblVehicleEF	MHD	0.03	5.0250e-003
tblVehicleEF	MHD	0.44	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.62	9.78
tblVehicleEF	MHD	0.35	9.57
tblVehicleEF	MHD	0.57	0.27
tblVehicleEF	MHD	11.00	1.12
tblVehicleEF	MHD	3.7000e-005	3.4460e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005

tblVehicleEF	MHD	6.0400e-004	0.34
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3390e-003
tblVehicleEF	MHD	0.18	0.03
tblVehicleEF	MHD	6.0400e-004	0.34
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	2.9790e-003	0.06
tblVehicleEF	OBUS	0.02	7.4390e-003
tblVehicleEF	OBUS	0.24	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.74	14.81
tblVehicleEF	OBUS	0.20	5.95
tblVehicleEF	OBUS	0.51	0.71
tblVehicleEF	OBUS	2.27	0.83
tblVehicleEF	OBUS	1.8000e-005	6.2920e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	1.4770e-003	0.93
tblVehicleEF	OBUS	0.03	1.00
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.04
tblVehicleEF	OBUS	1.4770e-003	0.93
tblVehicleEF	OBUS	0.05	1.56
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.27	0.04
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	3.0170e-003	0.06
tblVehicleEF	OBUS	0.02	7.1600e-003
tblVehicleEF	OBUS	0.24	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.53	14.63
tblVehicleEF	OBUS	0.20	5.69
tblVehicleEF	OBUS	0.48	0.67
tblVehicleEF	OBUS	2.25	0.82
tblVehicleEF	OBUS	1.5000e-005	5.5480e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	2.2460e-003	1.01
tblVehicleEF	OBUS	0.03	1.04
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.04
tblVehicleEF	OBUS	2.2460e-003	1.01

tblVehicleEF	OBUS	0.05	1.61
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.26	0.04
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	2.9690e-003	0.06
tblVehicleEF	OBUS	0.02	7.4990e-003
tblVehicleEF	OBUS	0.25	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.78	15.06
tblVehicleEF	OBUS	0.19	6.31
tblVehicleEF	OBUS	0.50	0.70
tblVehicleEF	OBUS	2.28	0.83
tblVehicleEF	OBUS	2.2000e-005	7.3190e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	1.3810e-003	0.94
tblVehicleEF	OBUS	0.03	0.93
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.04
tblVehicleEF	OBUS	1.3810e-003	0.94
tblVehicleEF	OBUS	0.05	1.48
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.27	0.04
tblVehicleEF	SBUS	0.84	6.27
tblVehicleEF	SBUS	3.5720e-003	1.46
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	9.31	4.70
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	6.24	51.96
tblVehicleEF	SBUS	1.89	3.89
tblVehicleEF	SBUS	0.86	0.41
tblVehicleEF	SBUS	10.08	0.50
tblVehicleEF	SBUS	1.4300e-004	6.7000e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	5.1640e-003	2.10
tblVehicleEF	SBUS	1.13	5.29
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.36	0.18
tblVehicleEF	SBUS	5.1640e-003	2.10
tblVehicleEF	SBUS	1.65	12.79
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.39	0.19
tblVehicleEF	SBUS	0.84	6.27

tblVehicleEF	SBUS	3.6160e-003	1.46
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	9.28	4.70
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	5.00	51.94
tblVehicleEF	SBUS	1.95	3.84
tblVehicleEF	SBUS	0.81	0.38
tblVehicleEF	SBUS	10.06	0.48
tblVehicleEF	SBUS	1.2000e-004	6.6280e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	7.8540e-003	2.26
tblVehicleEF	SBUS	1.13	5.30
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.32	0.16
tblVehicleEF	SBUS	7.8540e-003	2.26
tblVehicleEF	SBUS	1.64	12.79
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.35	0.17
tblVehicleEF	SBUS	0.84	6.27
tblVehicleEF	SBUS	3.5580e-003	1.46
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	9.36	4.69
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	6.48	51.98
tblVehicleEF	SBUS	1.81	3.95
tblVehicleEF	SBUS	0.85	0.40
tblVehicleEF	SBUS	10.09	0.50
tblVehicleEF	SBUS	1.7400e-004	6.8000e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	4.7560e-003	2.14
tblVehicleEF	SBUS	1.13	5.29
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.37	0.18
tblVehicleEF	SBUS	4.7560e-003	2.14
tblVehicleEF	SBUS	1.65	12.78
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.40	0.20
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.60	0.60

tblVehicleEF	UBUS	7.53	0.00
tblVehicleEF	UBUS	1.15	0.09
tblVehicleEF	UBUS	12.01	0.12
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	3.9370e-003	0.14
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.73	0.04
tblVehicleEF	UBUS	3.9370e-003	0.14
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.80	0.04
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.61	0.60
tblVehicleEF	UBUS	6.60	0.00
tblVehicleEF	UBUS	1.07	0.09
tblVehicleEF	UBUS	11.96	0.11
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	5.9560e-003	0.17
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.67	0.04
tblVehicleEF	UBUS	5.9560e-003	0.17
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.74	0.04
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.60	0.60
tblVehicleEF	UBUS	7.66	0.00
tblVehicleEF	UBUS	1.13	0.09
tblVehicleEF	UBUS	12.03	0.12
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	3.6900e-003	0.14
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.74	0.04
tblVehicleEF	UBUS	3.6800e-003	0.14
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.81	0.04

tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWoodstoves	NumberCatalytic	1,087.05	0.00
tblWoodstoves	NumberCatalytic	197.20	0.00
tblWoodstoves	NumberNoncatalytic	1,087.05	0.00
tblWoodstoves	NumberNoncatalytic	197.20	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7040	38.8929	29.7382	0.0642	18.2675	1.6365	19.8815	9.9840	1.5056	11.4689						
2023	182.4521	774.3099	1,602.9441	6.8844	1,015.5470	4.8327	1,020.3797	261.5079	4.4899	265.9979						
2024	173.2709	763.0859	1,505.2624	6.7263	1,015.5470	4.6939	1,020.2409	261.5080	4.3592	265.8671						
2025	164.9952	748.7629	1,408.1681	6.5398	1,015.5469	4.5332	1,020.0801	261.5079	4.2087	265.7166						
2026	157.9177	736.2311	1,325.9460	6.3775	1,015.5471	4.4122	1,019.9593	261.5080	4.0965	265.6045						
2027	151.0578	724.5719	1,252.9749	6.2343	1,015.5473	4.2267	1,019.7740	261.5081	3.9249	265.4329						
2028	144.0743	714.5099	1,189.3147	6.1087	1,015.5476	3.9964	1,019.5440	261.5082	3.7123	265.2205						
2029	136.3293	704.7400	1,126.8359	5.9973	1,015.5480	3.7881	1,019.3361	261.5083	3.5200	265.0283						
2030	128.4362	690.9049	1,069.5731	5.9026	1,015.5483	3.2198	1,018.7680	261.5084	2.9976	264.5060						
2031	120.0978	683.8539	1,017.3892	5.8258	1,015.5484	3.0573	1,018.6057	261.5084	2.8479	264.3563						
2032	112.5566	675.8769	968.1121	5.7502	1,015.5485	2.8972	1,018.4456	261.5085	2.7001	264.2086						
2033	106.1225	668.8985	925.9991	5.6848	1,015.5486	2.7527	1,018.3013	261.5085	2.5670	264.0755						
2034	100.6570	662.8303	885.3084	5.6280	1,015.5488	2.6156	1,018.1644	261.5086	2.4406	263.9492						
2035	96.0065	657.3736	851.5505	5.5797	1,015.5490	2.4365	1,017.9857	261.5086	2.2713	263.7799						
2036	35.1755	4.8888	69.2202	0.3306	48.6451	0.1880	48.8263	12.9009	0.1879	13.0684						
2037	35.1755	4.4415	69.2202	0.3306	48.6451	0.1812	48.8263	12.9009	0.1675	13.0684						
<b>Maximum</b>	<b>182.4521</b>	<b>774.3099</b>	<b>1,602.9441</b>	<b>6.8844</b>	<b>1,015.5490</b>	<b>4.8327</b>	<b>1,020.3797</b>	<b>261.5086</b>	<b>4.4899</b>	<b>265.9979</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	lb/day										lb/day					
2022	3.7040	38.8929	29.7382	0.0642	18.2675	1.6365	19.8815	9.9840	1.5056	11.4689						
2023	182.4521	774.3099	1,602.9441	6.8844	1,015.5470	4.8327	1,020.3797	261.5079	4.4899	265.9979						
2024	173.2709	763.0859	1,505.2624	6.7263	1,015.5470	4.6939	1,020.2409	261.5080	4.3592	265.8671						
2025	164.9952	748.7629	1,408.1681	6.5398	1,015.5469	4.5332	1,020.0801	261.5079	4.2087	265.7166						
2026	157.9177	736.2311	1,325.9460	6.3775	1,015.5471	4.4122	1,019.9593	261.5080	4.0965	265.6045						
2027	151.0578	724.5719	1,252.9749	6.2343	1,015.5473	4.2267	1,019.7740	261.5081	3.9249	265.4329						
2028	144.0743	714.5099	1,189.3147	6.1087	1,015.5476	3.9964	1,019.5440	261.5082	3.7123	265.2205						
2029	136.3293	704.7400	1,126.8359	5.9973	1,015.5480	3.7881	1,019.3361	261.5083	3.5200	265.0283						
2030	128.4362	690.9049	1,069.5731	5.9026	1,015.5483	3.2198	1,018.7680	261.5084	2.9976	264.5060						
2031	120.0978	683.8539	1,017.3892	5.8258	1,015.5484	3.0573	1,018.6057	261.5084	2.8479	264.3563						
2032	112.5566	675.8769	968.1121	5.7502	1,015.5485	2.8972	1,018.4456	261.5085	2.7001	264.2086						
2033	106.1225	668.8985	925.9991	5.6848	1,015.5486	2.7527	1,018.3013	261.5085	2.5670	264.0755						
2034	100.6570	662.8303	885.3084	5.6280	1,015.5488	2.6156	1,018.1644	261.5086	2.4406	263.9492						
2035	96.0065	657.3736	851.5505	5.5797	1,015.5490	2.4365	1,017.9857	261.5086	2.2713	263.7799						
2036	95.1755	657.3736	851.5505	5.5797	1,015.5490	2.4365	1,017.9857	261.5086	2.2713	263.7799						
2037	95.1755	4.4415	69.2202	0.3306	48.6451	0.1812	48.8263	12.9009	0.1675	13.0684						
<b>Maximum</b>	<b>182.4521</b>	<b>774.3099</b>	<b>1,602.9441</b>	<b>6.8844</b>	<b>1,015.5490</b>	<b>4.8327</b>	<b>1,020.3797</b>	<b>261.5086</b>	<b>4.4899</b>	<b>265.9979</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>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Energy	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
Mobile	1,761.9414	3,978.0344	5,268.8241	25.5202	2,493.8575	16.7555	2,510.6130	723.7155	9.3573	733.0728						
<b>Total</b>	<b>2,814.9911</b>	<b>4,722.1757</b>	<b>7,706.7407</b>	<b>30.2074</b>	<b>2,493.8575</b>	<b>86.4643</b>	<b>2,580.3218</b>	<b>723.7155</b>	<b>79.0660</b>	<b>802.7816</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	lb/day										lb/day					
Area	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Energy	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
Mobile	1,761.9414	3,978.0344	5,268.8241	25.5202	2,493.8575	16.7555	2,510.6130	723.7155	9.3573	733.0728						
<b>Total</b>	<b>2,814.9911</b>	<b>4,722.1757</b>	<b>7,706.7407</b>	<b>30.2074</b>	<b>2,493.8575</b>	<b>86.4643</b>	<b>2,580.3218</b>	<b>723.7155</b>	<b>79.0660</b>	<b>802.7816</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	6/17/2022	5	6000	
2	Grading	Grading	6/18/2022	8/25/2023	5	15500	
3	Building Construction	Building Construction	8/26/2023	7/13/2035	5	155000	
4	Paving	Paving	7/14/2035	5/16/2036	5	11000	
5	Architectural Coating	Architectural Coating	5/17/2036	3/20/2037	5	11000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 58,401,405; Residential Outdoor: 19,467,135; Non-Residential Indoor: 19,168,467; Non-Residential Outdoor:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21,762.00	4,840.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21,762.00	4,840.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		4,352.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836						
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>						

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0713</b>	<b>0.0445</b>	<b>0.6270</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**Mitigated Construction On-Site**

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

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836						
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0713	0.0445	0.6270	1.9300e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0713</b>	<b>0.0445</b>	<b>0.6270</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041						
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0792</b>	<b>0.0495</b>	<b>0.6967</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041						
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0792</b>	<b>0.0495</b>	<b>0.6967</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</b>						

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105						
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607						
<b>Total</b>	<b>0.0745</b>	<b>0.0448</b>	<b>0.6434</b>	<b>2.0600e-003</b>	<b>0.2236</b>	<b>1.5600e-003</b>	<b>0.2251</b>	<b>0.0593</b>	<b>1.4300e-003</b>	<b>0.0607</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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105						
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607						
<b>Total</b>	<b>0.0745</b>	<b>0.0448</b>	<b>0.6434</b>	<b>2.0600e-003</b>	<b>0.2236</b>	<b>1.5600e-003</b>	<b>0.2251</b>	<b>0.0593</b>	<b>1.4300e-003</b>	<b>0.0607</b>						

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584						
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.8451	662.5327	186.5505	2.3694	106.1059	0.7445	106.8508	28.6731	0.7120	29.3851						
Worker	162.0342	97.3923	1,400.1496	4.4881	909.4411	3.3881	912.8292	232.8349	3.1195	235.9543						

<b>Total</b>	<b>180.8793</b>	<b>759.9250</b>	<b>1,586.7001</b>	<b>6.8575</b>	<b>1,015.5470</b>	<b>4.1330</b>	<b>1,019.6800</b>	<b>261.5079</b>	<b>3.8315</b>	<b>265.3394</b>							
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584						
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.8451	662.5327	186.5505	2.3694	106.1059	0.7449	106.8508	28.6731	0.7120	29.3851						
Worker	162.0342	97.3923	1,400.1496	4.4881	909.4411	3.3881	912.8292	232.8349	3.1195	235.9543						
<b>Total</b>	<b>180.8793</b>	<b>759.9250</b>	<b>1,586.7001</b>	<b>6.8575</b>	<b>1,015.5470</b>	<b>4.1330</b>	<b>1,019.6800</b>	<b>261.5079</b>	<b>3.8315</b>	<b>265.3394</b>						

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769						
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</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	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.4486	660.8892	181.1813	2.3593	106.1059	0.7373	106.8432	28.6731	0.7047	29.3778						
Worker	153.3507	88.7529	1,307.9144	4.3400	909.4411	3.3433	912.7844	232.8349	3.0775	235.9124						
<b>Total</b>	<b>171.7993</b>	<b>749.6421</b>	<b>1,489.0956</b>	<b>6.6993</b>	<b>1,015.5470</b>	<b>4.0805</b>	<b>1,019.6276</b>	<b>261.5080</b>	<b>3.7823</b>	<b>265.2902</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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769						
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.4486	660.8892	181.1813	2.3593	106.1059	0.7373	106.8432	28.6731	0.7047	29.3778						
Worker	153.3507	88.7529	1,307.9144	4.3400	909.4411	3.3433	912.7844	232.8349	3.0775	235.9124						
<b>Total</b>	<b>171.7993</b>	<b>749.6421</b>	<b>1,489.0956</b>	<b>6.6993</b>	<b>1,015.5470</b>	<b>4.0805</b>	<b>1,019.6276</b>	<b>261.5080</b>	<b>3.7823</b>	<b>265.2902</b>						

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.9804	655.1274	176.3959	2.3444	106.1058	0.7264	106.8322	28.6731	0.6944	29.3674						
Worker	145.6474	81.1658	1,215.6875	4.1684	909.4411	3.2792	912.7203	232.8349	3.0181	235.8530						
<b>Total</b>	<b>163.6278</b>	<b>736.2932</b>	<b>1,392.0834</b>	<b>6.5128</b>	<b>1,015.5469</b>	<b>4.0056</b>	<b>1,019.5525</b>	<b>261.5079</b>	<b>3.7125</b>	<b>265.2204</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.9804	655.1274	176.3959	2.3444	106.1058	0.7264	106.8322	28.6731	0.6944	29.3674						
Worker	145.6474	81.1658	1,215.6875	4.1684	909.4411	3.2792	912.7203	232.8349	3.0181	235.8530						
<b>Total</b>	<b>163.6278</b>	<b>736.2932</b>	<b>1,392.0834</b>	<b>6.5128</b>	<b>1,015.5469</b>	<b>4.0056</b>	<b>1,019.5525</b>	<b>261.5079</b>	<b>3.7125</b>	<b>265.2204</b>						

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.5715	649.0328	172.7274	2.3303	106.1060	0.7137	106.8197	28.6731	0.6822	29.3553						
Worker	138.9788	74.7286	1,137.1339	4.0202	909.4411	3.1709	912.6120	232.8349	2.9180	235.7529						
<b>Total</b>	<b>156.5503</b>	<b>723.7614</b>	<b>1,309.8614</b>	<b>6.3505</b>	<b>1,015.5471</b>	<b>3.8846</b>	<b>1,019.4317</b>	<b>261.5080</b>	<b>3.6002</b>	<b>265.1082</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.5715	649.0328	172.7274	2.3303	106.1060	0.7137	106.8197	28.6731	0.6822	29.3553						
Worker	138.9788	74.7286	1,137.1339	4.0202	909.4411	3.1709	912.6120	232.8349	2.9180	235.7529						
<b>Total</b>	<b>156.5503</b>	<b>723.7614</b>	<b>1,309.8614</b>	<b>6.3505</b>	<b>1,015.5471</b>	<b>3.8846</b>	<b>1,019.4317</b>	<b>261.5080</b>	<b>3.6002</b>	<b>265.1082</b>						

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.2281	643.1649	169.7637	2.3178	106.1062	0.7014	106.8076	28.6732	0.6704	29.3436						
Worker	132.4623	68.9373	1,067.1265	3.8896	909.4411	2.9977	912.4389	232.8349	2.7582	235.5930						
<b>Total</b>	<b>149.6904</b>	<b>712.1022</b>	<b>1,236.8902</b>	<b>6.2074</b>	<b>1,015.5473</b>	<b>3.6992</b>	<b>1,019.2465</b>	<b>261.5081</b>	<b>3.4286</b>	<b>264.9367</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.2281	643.1649	169.7637	2.3178	106.1062	0.7014	106.8076	28.6732	0.6704	29.3436						
Worker	132.4623	68.9373	1,067.1265	3.8896	909.4411	2.9977	912.4389	232.8349	2.7582	235.5930						
<b>Total</b>	<b>149.6904</b>	<b>712.1022</b>	<b>1,236.8902</b>	<b>6.2074</b>	<b>1,015.5473</b>	<b>3.6992</b>	<b>1,019.2465</b>	<b>261.5081</b>	<b>3.4286</b>	<b>264.9367</b>						

**3.4 Building Construction - 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	lb/day										lb/day					

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963							
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.9354	638.2988	167.4919	2.3071	106.1065	0.6916	106.7981	28.6733	0.6611	29.3344						
Worker	125.7714	63.7415	1,005.7381	3.7747	909.4411	2.7773	912.2184	232.8349	2.5550	235.3899						
<b>Total</b>	<b>142.7069</b>	<b>702.0402</b>	<b>1,173.2300</b>	<b>6.0818</b>	<b>1,015.5476</b>	<b>3.4689</b>	<b>1,019.0165</b>	<b>261.5082</b>	<b>3.2161</b>	<b>264.7242</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.9354	638.2988	167.4919	2.3071	106.1065	0.6916	106.7981	28.6733	0.6611	29.3344						
Worker	125.7714	63.7415	1,005.7381	3.7747	909.4411	2.7773	912.2184	232.8349	2.5550	235.3899						
<b>Total</b>	<b>142.7069</b>	<b>702.0402</b>	<b>1,173.2300</b>	<b>6.0818</b>	<b>1,015.5476</b>	<b>3.4689</b>	<b>1,019.0165</b>	<b>261.5082</b>	<b>3.2161</b>	<b>264.7242</b>						

**3.4 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.6684	633.5414	165.3667	2.2975	106.1068	0.6803	106.7872	28.6734	0.6503	29.3237						
Worker	118.2935	58.7289	945.3846	3.6728	909.4411	2.5802	912.0213	232.8349	2.3735	235.2084						
<b>Total</b>	<b>134.9619</b>	<b>692.2703</b>	<b>1,110.7513</b>	<b>5.9704</b>	<b>1,015.5480</b>	<b>3.2606</b>	<b>1,018.8085</b>	<b>261.5083</b>	<b>3.0238</b>	<b>264.5321</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.6684	633.5414	165.3667	2.2975	106.1068	0.6803	106.7872	28.6734	0.6503	29.3237						
Worker	118.2935	58.7289	945.3846	3.6728	909.4411	2.5802	912.0213	232.8349	2.3735	235.2084						
<b>Total</b>	<b>134.9619</b>	<b>692.2703</b>	<b>1,110.7513</b>	<b>5.9704</b>	<b>1,015.5480</b>	<b>3.2606</b>	<b>1,018.8085</b>	<b>261.5083</b>	<b>3.0238</b>	<b>264.5321</b>						

**3.4 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.4394	628.9778	163.7522	2.2891	106.1072	0.6694	106.7765	28.6736	0.6398	29.3133						
Worker	110.6877	53.9925	889.6639	3.5825	909.4411	2.4023	911.8434	232.8349	2.2097	235.0445						
<b>Total</b>	<b>127.1271</b>	<b>682.9702</b>	<b>1,053.4161</b>	<b>5.8716</b>	<b>1,015.5483</b>	<b>3.0716</b>	<b>1,018.6199</b>	<b>261.5084</b>	<b>2.8494</b>	<b>264.3578</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.4394	628.9778	163.7522	2.2891	106.1072	0.6694	106.7765	28.6736	0.6398	29.3133						
Worker	110.6877	53.9925	889.6639	3.5825	909.4411	2.4023	911.8434	232.8349	2.2097	235.0445						

<b>Total</b>	127.1271	682.9702	1,053.4161	5.8716	1,015.5483	3.0716	1,018.6199	261.5084	2.8494	264.3578							
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**3.4 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	16.3672	626.5747	163.3861	2.2863	106.1073	0.6619	106.7692	28.6736	0.6326	29.3062							
Worker	102.4214	49.3446	837.8481	3.5086	909.4411	2.2473	911.6884	232.8349	2.0671	234.9019							
<b>Total</b>	<b>118.7886</b>	<b>675.9193</b>	<b>1,001.2322</b>	<b>5.7949</b>	<b>1,015.5484</b>	<b>2.9092</b>	<b>1,018.4576</b>	<b>261.5084</b>	<b>2.6997</b>	<b>264.2081</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	lb/day										lb/day						
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.3672	626.5747	163.3861	2.2863	106.1073	0.6619	106.7692	28.6736	0.6326	29.3062						
Worker	102.4214	49.3446	837.8481	3.5086	909.4411	2.2473	911.6884	232.8349	2.0671	234.9019						
<b>Total</b>	<b>118.7886</b>	<b>675.9193</b>	<b>1,001.2322</b>	<b>5.7949</b>	<b>1,015.5484</b>	<b>2.9092</b>	<b>1,018.4576</b>	<b>261.5084</b>	<b>2.6997</b>	<b>264.2081</b>						

### 3.4 Building Construction - 2032

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.2245	622.6585	162.6574	2.2812	106.1074	0.6536	106.7610	28.6736	0.6247	29.2983						
Worker	95.0230	45.2838	789.2977	3.4381	909.4411	2.0954	911.5365	232.8349	1.9273	234.7622						
<b>Total</b>	<b>111.2474</b>	<b>667.9423</b>	<b>951.9551</b>	<b>5.7193</b>	<b>1,015.5485</b>	<b>2.7490</b>	<b>1,018.2975</b>	<b>261.5085</b>	<b>2.5520</b>	<b>264.0605</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.2245	622.6585	162.6574	2.2812	106.1074	0.6536	106.7610	28.6736	0.6247	29.2983						
Worker	95.0230	45.2838	789.2977	3.4381	909.4411	2.0954	911.5365	232.8349	1.9273	234.7622						
<b>Total</b>	<b>111.2474</b>	<b>667.9423</b>	<b>951.9551</b>	<b>5.7193</b>	<b>1,015.5485</b>	<b>2.7490</b>	<b>1,018.2975</b>	<b>261.5085</b>	<b>2.5520</b>	<b>264.0605</b>						

### 3.4 Building Construction - 2033

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.1224	619.1209	162.1627	2.2773	106.1075	0.6463	106.7538	28.6737	0.6177	29.2914						
Worker	88.0910	41.8430	747.6794	3.3766	909.4411	1.9582	911.3993	232.8349	1.8011	234.6360						
<b>Total</b>	<b>104.8133</b>	<b>660.9639</b>	<b>909.8421</b>	<b>5.6538</b>	<b>1,015.5486</b>	<b>2.6045</b>	<b>1,018.1531</b>	<b>261.5085</b>	<b>2.4188</b>	<b>263.9273</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.1224	619.1209	162.1627	2.2773	106.1075	0.6463	106.7538	28.6737	0.6177	29.2914						
Worker	88.6910	41.8430	747.6794	3.3766	909.4411	1.9582	911.3993	232.8349	1.8011	234.6360						
<b>Total</b>	<b>104.8133</b>	<b>660.9639</b>	<b>909.8421</b>	<b>5.6538</b>	<b>1,015.5486</b>	<b>2.6045</b>	<b>1,018.1531</b>	<b>261.5085</b>	<b>2.4188</b>	<b>263.9273</b>						

**3.4 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.0307	615.9373	161.6288	2.2743	106.1077	0.6390	106.7467	28.6737	0.6107	29.2844						
Worker	83.3172	38.9584	707.5226	3.3227	909.4411	1.8284	911.2695	232.8349	1.6817	234.5166						
<b>Total</b>	<b>99.3479</b>	<b>654.8957</b>	<b>869.1514</b>	<b>5.5970</b>	<b>1,015.5488</b>	<b>2.4674</b>	<b>1,018.0162</b>	<b>261.5086</b>	<b>2.2925</b>	<b>263.8010</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.0307	615.9373	161.6288	2.2743	106.1077	0.6390	106.7467	28.6737	0.6107	29.2844						
Worker	83.3172	38.9584	707.5226	3.3227	909.4411	1.8284	911.2695	232.8349	1.6817	234.5166						
<b>Total</b>	<b>99.3479</b>	<b>654.8957</b>	<b>869.1514</b>	<b>5.5970</b>	<b>1,015.5488</b>	<b>2.4674</b>	<b>1,018.0162</b>	<b>261.5086</b>	<b>2.2925</b>	<b>263.8010</b>						

**3.4 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904						
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	15.9528	613.3715	161.1111	2.2721	106.1079	0.6333	106.7411	28.6738	0.6052	29.2790						
Worker	78.8369	36.8408	674.3216	3.2766	909.4411	1.7131	911.1542	232.8349	1.5757	234.4105						
<b>Total</b>	<b>94.7897</b>	<b>650.2123</b>	<b>835.4327</b>	<b>5.5487</b>	<b>1,015.5490</b>	<b>2.3463</b>	<b>1,017.8953</b>	<b>261.5086</b>	<b>2.1809</b>	<b>263.6895</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	lb/day										lb/day					

Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904							
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	15.9528	613.3715	161.1111	2.2721	106.1079	0.6333	106.7411	28.6738	0.6052	29.2790						
Worker	78.8369	36.8408	674.3216	3.2766	909.4411	1.7131	911.1542	232.8349	1.5757	234.4105						
<b>Total</b>	<b>94.7897</b>	<b>650.2123</b>	<b>835.4327</b>	<b>5.5487</b>	<b>1,015.5490</b>	<b>2.3463</b>	<b>1,017.8953</b>	<b>261.5086</b>	<b>2.1809</b>	<b>263.6895</b>						

**3.5 Paving - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0272	0.0127	0.2324	1.1300e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0272</b>	<b>0.0127</b>	<b>0.2324</b>	<b>1.1300e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</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	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0272	0.0127	0.2324	1.1300e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0272</b>	<b>0.0127</b>	<b>0.2324</b>	<b>1.1300e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</b>						

**3.5 Paving - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0272	0.0127	0.2324	1.1300e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0272</b>	<b>0.0127</b>	<b>0.2324</b>	<b>1.1300e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</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	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0272	0.0127	0.2324	1.1300e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0272</b>	<b>0.0127</b>	<b>0.2324</b>	<b>1.1300e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</b>						

**3.6 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003						
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	7.8830	3.6837	67.4260	0.3276	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						

<b>Total</b>	<b>7.8830</b>	<b>3.6837</b>	<b>67.4260</b>	<b>0.3276</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</b>							
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003							
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	7.8830	3.6837	67.4260	0.3276	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585							
<b>Total</b>	<b>7.8830</b>	<b>3.6837</b>	<b>67.4260</b>	<b>0.3276</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</b>							

**3.6 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003							
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	7.8830	3.6837	67.4260	0.3276	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						
<b>Total</b>	<b>7.8830</b>	<b>3.6837</b>	<b>67.4260</b>	<b>0.3276</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</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	lb/day										lb/day					
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003						
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	7.8830	3.6837	67.4260	0.3276	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						
<b>Total</b>	<b>7.8830</b>	<b>3.6837</b>	<b>67.4260</b>	<b>0.3276</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</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	lb/day										lb/day					
Mitigated	1,761.9414	3,978.0344	5,268.8241	25.5202	2,493.8575	16.7555	2,510.6130	723.7155	9.3573	733.0728						
Unmitigated	1,761.9414	3,978.0344	5,268.8241	25.5202	2,493.8575	16.7555	2,510.6130	723.7155	9.3573	733.0728						



#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	143,273.19	155,665.56	131,967.87	462,575,646	462,575,646
General Office Building	29,082.47	8,486.21	2768.50	71,179,129	71,179,129
Hotel	9,632.43	9,656.01	7015.05	22,100,447	22,100,447
Manufacturing	6,567.34	2,561.61	1065.90	23,067,677	23,067,677
Movie Theater (No Matinee)	12,177.36	15,487.68	12776.40	26,987,467	26,987,467
Regional Shopping Center	177,085.44	207,235.58	104,675.33	369,950,786	369,950,786
Single Family Housing	37,546.88	39,085.04	33,997.28	120,166,870	120,166,870
Unrefrigerated Warehouse-No Rail	4,045.44	4,045.44	4,045.44	17,337,611	17,337,611
<b>Total</b>	<b>419,410.55</b>	<b>440,223.13</b>	<b>298,311.78</b>	<b>1,113,365,632</b>	<b>1,113,365,632</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
General Office Building	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Hotel	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Manufacturing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Movie Theater (No Matinee)	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Regional Shopping Center	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Single Family Housing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Unrefrigerated Warehouse-No Rail	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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
NaturalGas Mitigated	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
NaturalGas Unmitigated	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	900818	9.7147	83.0166	35.3262	0.5299		6.7120	6.7120		6.7120	6.7120						
General Office Building	24849.7	0.2680	2.4363	2.0465	0.0146		0.1852	0.1852		0.1852	0.1852						
Hotel	278924	3.0080	27.3455	22.9702	0.1641		2.0783	2.0783		2.0783	2.0783						
Manufacturing	152326	1.6427	14.9339	12.5445	0.0896		1.1350	1.1350		1.1350	1.1350						
Movie Theater (No Matinee)	13822	0.1491	1.3551	1.1383	8.1300e-003		0.1030	0.1030		0.1030	0.1030						
Regional Shopping Center	24996.8	0.2696	2.4507	2.0586	0.0147		0.1863	0.1863		0.1863	0.1863						
Single Family Housing	305627	3.2960	28.1656	11.9854	0.1798		2.2772	2.2772		2.2772	2.2772						
Unrefrigerated Warehouse-No Det	13260.5	0.1430	1.3001	1.0920	7.8000e-003		0.0988	0.0988		0.0988	0.0988						
<b>Total</b>		<b>18.4910</b>	<b>161.0036</b>	<b>89.1616</b>	<b>1.0086</b>		<b>12.7756</b>	<b>12.7756</b>		<b>12.7756</b>	<b>12.7756</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	lb/day										lb/day					
Apartments Low Rise	900.818	9.7147	83.0166	35.3262	0.5299		6.7120	6.7120		6.7120	6.7120						
General Office Building	24.8497	0.2680	2.4363	2.0465	0.0146		0.1852	0.1852		0.1852	0.1852						
Hotel	278.924	3.0080	27.3455	22.9702	0.1641		2.0783	2.0783		2.0783	2.0783						
Manufacturing	152.326	1.6427	14.9339	12.5445	0.0896		1.1350	1.1350		1.1350	1.1350						
Movie Theater (No Matinee)	13.822	0.1491	1.3551	1.1383	8.1300e-003		0.1030	0.1030		0.1030	0.1030						
Regional Shopping Center	24.9968	0.2696	2.4507	2.0586	0.0147		0.1863	0.1863		0.1863	0.1863						
Single Family Housing	305.627	3.2960	28.1656	11.9854	0.1798		2.2772	2.2772		2.2772	2.2772						
Unrefrigerated Warehouse-No Det	13.2605	0.1430	1.3001	1.0920	7.8000e-003		0.0988	0.0988		0.0988	0.0988						
<b>Total</b>		<b>18.4910</b>	<b>161.0036</b>	<b>89.1616</b>	<b>1.0086</b>		<b>12.7756</b>	<b>12.7756</b>		<b>12.7756</b>	<b>12.7756</b>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Unmitigated	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	81.8963					0.0000	0.0000		0.0000	0.0000						
Consumer Products	824.0597					0.0000	0.0000		0.0000	0.0000						
Hearth	65.3885	558.7747	237.7765	3.5667		45.1775	45.1775		45.1775	45.1775						
Landscaping	63.2141	24.3630	2,110.9785	0.1120		11.7556	11.7556		11.7556	11.7556						
<b>Total</b>	<b>1,034.5587</b>	<b>583.1377</b>	<b>2,348.7550</b>	<b>3.6786</b>		<b>56.9332</b>	<b>56.9332</b>		<b>56.9332</b>	<b>56.9332</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	lb/day										lb/day					
Architectural Coating	81.8963					0.0000	0.0000		0.0000	0.0000						
Consumer Products	824.0597					0.0000	0.0000		0.0000	0.0000						
Hearth	65.3885	558.7747	237.7765	3.5667		45.1775	45.1775		45.1775	45.1775						
Landscaping	63.2141	24.3630	2,110.9785	0.1120		11.7556	11.7556		11.7556	11.7556						
<b>Total</b>	<b>1,034.5587</b>	<b>583.1377</b>	<b>2,348.7550</b>	<b>3.6786</b>		<b>56.9332</b>	<b>56.9332</b>		<b>56.9332</b>	<b>56.9332</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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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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Rancho Cucamonga General Plan 2040 - Operational Emissions - South Coast AQMD Air District, Winter

**Rancho Cucamonga General Plan 2040 - Operational Emissions**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,636.67	1000sqft	60.53	2,636,670.00	0
Manufacturing	1,719.20	1000sqft	39.47	1,719,200.00	0
Unrefrigerated Warehouse-No Rail	2,408.00	1000sqft	55.28	2,408,000.00	0
Hotel	1,179.00	Room	39.30	1,711,908.00	0
Movie Theater (No Matinee)	156.00	1000sqft	3.58	156,000.00	0
Apartments Low Rise	21,741.00	Dwelling Unit	1,358.81	21,741,000.00	62179
Single Family Housing	3,944.00	Dwelling Unit	1,280.52	7,099,200.00	11280
Regional Shopping Center	4,147.20	1000sqft	95.21	4,147,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2040
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Model run used for non-mobile operational air emissions only. This analysis is not used for the GHG assessment.

Land Use - Regional Shopping Center was assumed under the Retail section.

Construction Phase - Model run not used for construction emissions estimates

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Vehicle Emission Factors - Adjusted EMFAC 2021 Emission Factors

Woodstoves - SCAQMD prohibits any wood-burning devices, such as wood-burning fireplaces or stoves, from being installed in new construction under SCAQMD Rule 415

Area Coating -

Energy Use - Adjusted energy values for Title 24 2019 Energy Efficiency standards.

Water And Wastewater -

Solid Waste -

Vehicle Trips - Operational mobile source emissions modeled separately

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	877.14	186.49
tblEnergyUse	T24E	3.07	2.74

tblEnergyUse	T24E	6.47	5.78
tblEnergyUse	T24E	2.20	1.96
tblEnergyUse	T24E	2.20	1.96
tblEnergyUse	T24E	4.58	4.09
tblEnergyUse	T24E	951.67	199.81
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	9,544.50	9,093.44
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	55.15	54.61
tblEnergyUse	T24NG	15.36	15.21
tblEnergyUse	T24NG	15.36	15.21
tblEnergyUse	T24NG	1.92	1.90
tblEnergyUse	T24NG	24,566.15	22,254.41
tblEnergyUse	T24NG	2.00	1.98
tblFireplaces	NumberGas	18,479.85	29,741.00
tblFireplaces	NumberGas	3,352.40	3,944.00
tblFireplaces	NumberNoFireplace	2,174.10	0.00
tblFireplaces	NumberNoFireplace	394.40	0.00
tblFireplaces	NumberWood	1,087.05	0.00
tblFireplaces	NumberWood	197.20	0.00
tblVehicleEF	HHD	0.38	1.03
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.50	0.25
tblVehicleEF	HHD	0.93	0.24
tblVehicleEF	HHD	3.40	88.88
tblVehicleEF	HHD	12.51	69.67
tblVehicleEF	HHD	1.42	1.20
tblVehicleEF	HHD	19.44	2.47
tblVehicleEF	HHD	1.8130e-003	0.03
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.2420e-003	0.02
tblVehicleEF	HHD	1.2700e-004	0.00
tblVehicleEF	HHD	1.1600e-004	2.1800e-004
tblVehicleEF	HHD	0.39	5.84
tblVehicleEF	HHD	0.08	0.01
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.1600e-004	2.1800e-004
tblVehicleEF	HHD	0.45	7.41
tblVehicleEF	HHD	0.17	0.04
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	0.36	1.05
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	1.09	0.25
tblVehicleEF	HHD	0.94	0.24

tblVehicleEF	HHD	3.23	87.76
tblVehicleEF	HHD	12.91	66.26
tblVehicleEF	HHD	1.34	1.13
tblVehicleEF	HHD	19.43	2.47
tblVehicleEF	HHD	1.5280e-003	0.02
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.2420e-003	0.02
tblVehicleEF	HHD	1.2700e-004	0.00
tblVehicleEF	HHD	1.8400e-004	2.4000e-004
tblVehicleEF	HHD	0.36	6.19
tblVehicleEF	HHD	0.08	0.01
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.8400e-004	2.4000e-004
tblVehicleEF	HHD	0.43	7.81
tblVehicleEF	HHD	0.17	0.04
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	0.42	1.01
tblVehicleEF	HHD	0.08	0.03
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	2.07	0.25
tblVehicleEF	HHD	0.93	0.24
tblVehicleEF	HHD	3.43	90.43
tblVehicleEF	HHD	11.95	74.37
tblVehicleEF	HHD	1.40	1.18
tblVehicleEF	HHD	19.44	2.47
tblVehicleEF	HHD	2.2060e-003	0.03
tblVehicleEF	HHD	0.06	0.09
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.2420e-003	0.02
tblVehicleEF	HHD	1.2700e-004	0.00
tblVehicleEF	HHD	1.0000e-004	2.1700e-004
tblVehicleEF	HHD	0.42	5.36
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	HHD	1.0000e-004	2.1700e-004
tblVehicleEF	HHD	0.49	6.87
tblVehicleEF	HHD	0.17	0.04
tblVehicleEF	HHD	0.06	0.00
tblVehicleEF	LDA	1.4650e-003	1.1560e-003
tblVehicleEF	LDA	6.7600e-004	0.03
tblVehicleEF	LDA	0.00	0.51
tblVehicleEF	LDA	0.27	0.04
tblVehicleEF	LDA	0.33	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.16
tblVehicleEF	LDA	0.04	8.2390e-003

tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	3.6840e-003	3.4840e-003
tblVehicleEF	LDA	9.1230e-003	0.13
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	5.3550e-003	5.0830e-003
tblVehicleEF	LDA	9.9890e-003	0.14
tblVehicleEF	LDA	1.5800e-003	1.2040e-003
tblVehicleEF	LDA	6.0000e-004	0.03
tblVehicleEF	LDA	0.00	0.62
tblVehicleEF	LDA	0.31	0.04
tblVehicleEF	LDA	0.28	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.15
tblVehicleEF	LDA	0.04	8.2390e-003
tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.02	1.13
tblVehicleEF	LDA	3.9680e-003	3.5900e-003
tblVehicleEF	LDA	8.0950e-003	0.12
tblVehicleEF	LDA	0.02	1.13
tblVehicleEF	LDA	5.7680e-003	5.2360e-003
tblVehicleEF	LDA	8.8630e-003	0.13
tblVehicleEF	LDA	1.4320e-003	1.1440e-003
tblVehicleEF	LDA	6.9200e-004	0.03
tblVehicleEF	LDA	0.00	0.48
tblVehicleEF	LDA	0.26	0.04
tblVehicleEF	LDA	0.34	0.00
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.16
tblVehicleEF	LDA	0.04	8.2390e-003
tblVehicleEF	LDA	7.5400e-004	6.2200e-004
tblVehicleEF	LDA	1.0030e-003	9.7300e-004
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	3.6020e-003	3.4570e-003
tblVehicleEF	LDA	9.3310e-003	0.14
tblVehicleEF	LDA	0.01	1.04
tblVehicleEF	LDA	5.2340e-003	5.0420e-003
tblVehicleEF	LDA	0.01	0.15
tblVehicleEF	LDT1	2.3180e-003	1.7300e-003
tblVehicleEF	LDT1	1.3490e-003	0.04
tblVehicleEF	LDT1	0.00	0.63
tblVehicleEF	LDT1	0.39	0.04
tblVehicleEF	LDT1	0.50	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.20



tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.03	1.72
tblVehicleEF	LDT1	5.7460e-003	5.9430e-003
tblVehicleEF	LDT1	0.02	0.17
tblVehicleEF	LDT1	0.03	1.72
tblVehicleEF	LDT1	8.3810e-003	8.6720e-003
tblVehicleEF	LDT1	0.02	0.19
tblVehicleEF	LDT1	2.4870e-003	1.7990e-003
tblVehicleEF	LDT1	1.1980e-003	0.04
tblVehicleEF	LDT1	0.00	0.76
tblVehicleEF	LDT1	0.43	0.04
tblVehicleEF	LDT1	0.43	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.02	0.18
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.04	1.85
tblVehicleEF	LDT1	6.1650e-003	6.1190e-003
tblVehicleEF	LDT1	0.02	0.15
tblVehicleEF	LDT1	0.04	1.85
tblVehicleEF	LDT1	8.9920e-003	8.9280e-003
tblVehicleEF	LDT1	0.02	0.17
tblVehicleEF	LDT1	2.2660e-003	1.7130e-003
tblVehicleEF	LDT1	1.3800e-003	0.04
tblVehicleEF	LDT1	0.00	0.59
tblVehicleEF	LDT1	0.37	0.04
tblVehicleEF	LDT1	0.52	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.20
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	1.0060e-003	7.5500e-004
tblVehicleEF	LDT1	1.3180e-003	1.1620e-003
tblVehicleEF	LDT1	0.02	1.72
tblVehicleEF	LDT1	5.6180e-003	5.8940e-003
tblVehicleEF	LDT1	0.02	0.18
tblVehicleEF	LDT1	0.02	1.72
tblVehicleEF	LDT1	8.1950e-003	8.6010e-003
tblVehicleEF	LDT1	0.02	0.19
tblVehicleEF	LDT2	2.2710e-003	1.6100e-003
tblVehicleEF	LDT2	1.2060e-003	0.04
tblVehicleEF	LDT2	0.00	0.62
tblVehicleEF	LDT2	0.42	0.04
tblVehicleEF	LDT2	0.50	0.00
tblVehicleEF	LDT2	0.03	0.03

tblVehicleEF	LDT2	0.02	0.20
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.02	1.05
tblVehicleEF	LDT2	5.6570e-003	5.1830e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	0.02	1.05
tblVehicleEF	LDT2	8.2420e-003	7.5440e-003
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LDT2	2.4430e-003	1.6750e-003
tblVehicleEF	LDT2	1.1080e-003	0.04
tblVehicleEF	LDT2	0.00	0.75
tblVehicleEF	LDT2	0.47	0.04
tblVehicleEF	LDT2	0.46	0.00
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.04	1.13
tblVehicleEF	LDT2	6.0820e-003	5.3350e-003
tblVehicleEF	LDT2	0.01	0.15
tblVehicleEF	LDT2	0.04	1.13
tblVehicleEF	LDT2	8.8620e-003	7.7660e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	2.2190e-003	1.5940e-003
tblVehicleEF	LDT2	1.2270e-003	0.04
tblVehicleEF	LDT2	0.00	0.57
tblVehicleEF	LDT2	0.40	0.04
tblVehicleEF	LDT2	0.51	0.00
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.21
tblVehicleEF	LDT2	0.04	9.8410e-003
tblVehicleEF	LDT2	9.0500e-004	6.6400e-004
tblVehicleEF	LDT2	1.1650e-003	9.7600e-004
tblVehicleEF	LDT2	0.02	1.04
tblVehicleEF	LDT2	5.5290e-003	5.1410e-003
tblVehicleEF	LDT2	0.02	0.17
tblVehicleEF	LDT2	0.02	1.04
tblVehicleEF	LDT2	8.0550e-003	7.4830e-003
tblVehicleEF	LDT2	0.02	0.19
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8850e-003	1.2420e-003
tblVehicleEF	LHD1	4.0890e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12

tblVehicleEF	LHD1	0.93	2.59
tblVehicleEF	LHD1	0.05	0.45
tblVehicleEF	LHD1	0.15	0.13
tblVehicleEF	LHD1	0.32	0.24
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
tblVehicleEF	LHD1	4.3400e-004	7.1000e-005
tblVehicleEF	LHD1	9.7300e-004	1.16
tblVehicleEF	LHD1	0.01	0.22
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	9.7300e-004	1.16
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.05	0.06
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8960e-003	1.2500e-003
tblVehicleEF	LHD1	3.9400e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12
tblVehicleEF	LHD1	0.89	2.59
tblVehicleEF	LHD1	0.05	0.45
tblVehicleEF	LHD1	0.14	0.12
tblVehicleEF	LHD1	0.31	0.23
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
tblVehicleEF	LHD1	4.3400e-004	7.1000e-005
tblVehicleEF	LHD1	1.5200e-003	1.24
tblVehicleEF	LHD1	0.01	0.22
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	1.5200e-003	1.24
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	2.6880e-003	0.05
tblVehicleEF	LHD1	1.8820e-003	1.2400e-003
tblVehicleEF	LHD1	4.1130e-003	0.01
tblVehicleEF	LHD1	0.12	0.35
tblVehicleEF	LHD1	0.18	0.12
tblVehicleEF	LHD1	0.94	2.59
tblVehicleEF	LHD1	0.05	0.45
tblVehicleEF	LHD1	0.15	0.12

tblVehicleEF	LHD1	0.32	0.24
tblVehicleEF	LHD1	6.8300e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6610e-003
tblVehicleEF	LHD1	4.8130e-003	5.8520e-003
tblVehicleEF	LHD1	4.3400e-004	7.1000e-005
tblVehicleEF	LHD1	8.7000e-004	1.16
tblVehicleEF	LHD1	0.01	0.22
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	8.7000e-004	1.16
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6910e-003	2.0280e-003
tblVehicleEF	LHD2	2.0450e-003	5.5660e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	0.80	1.74
tblVehicleEF	LHD2	0.05	0.77
tblVehicleEF	LHD2	0.05	0.27
tblVehicleEF	LHD2	0.19	0.11
tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	5.3000e-004	0.67
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	5.3000e-004	0.67
tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6990e-003	2.0310e-003
tblVehicleEF	LHD2	2.0320e-003	5.3860e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	0.77	1.74
tblVehicleEF	LHD2	0.05	0.77
tblVehicleEF	LHD2	0.05	0.25
tblVehicleEF	LHD2	0.18	0.11
tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	8.2300e-004	0.70
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	8.2300e-004	0.70
tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.1660e-003	0.03
tblVehicleEF	LHD2	1.6890e-003	2.0270e-003
tblVehicleEF	LHD2	2.0470e-003	5.5990e-003
tblVehicleEF	LHD2	0.12	0.24
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	0.81	1.74
tblVehicleEF	LHD2	0.05	0.77
tblVehicleEF	LHD2	0.05	0.26
tblVehicleEF	LHD2	0.19	0.11
tblVehicleEF	LHD2	8.6400e-004	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.1850e-003	0.01
tblVehicleEF	LHD2	3.8300e-004	3.1000e-005
tblVehicleEF	LHD2	4.8300e-004	0.66
tblVehicleEF	LHD2	0.01	0.16
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	4.8300e-004	0.66
tblVehicleEF	LHD2	0.01	0.21
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	MCY	0.52	0.15
tblVehicleEF	MCY	0.14	0.13
tblVehicleEF	MCY	0.00	10.41
tblVehicleEF	MCY	17.39	9.1390e-003
tblVehicleEF	MCY	9.87	0.00
tblVehicleEF	MCY	1.12	0.47
tblVehicleEF	MCY	0.31	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	1.21	3.62
tblVehicleEF	MCY	2.41	0.88
tblVehicleEF	MCY	1.95	0.91
tblVehicleEF	MCY	1.21	3.62

tblVehicleEF	MCY	3.03	1.09
tblVehicleEF	MCY	2.12	0.99
tblVehicleEF	MCY	0.52	0.15
tblVehicleEF	MCY	0.13	0.12
tblVehicleEF	MCY	0.00	10.56
tblVehicleEF	MCY	17.04	9.1390e-003
tblVehicleEF	MCY	8.98	0.00
tblVehicleEF	MCY	0.98	0.41
tblVehicleEF	MCY	0.29	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	2.02	4.48
tblVehicleEF	MCY	2.38	0.89
tblVehicleEF	MCY	1.76	0.83
tblVehicleEF	MCY	2.02	4.48
tblVehicleEF	MCY	2.98	1.11
tblVehicleEF	MCY	1.92	0.90
tblVehicleEF	MCY	0.53	0.14
tblVehicleEF	MCY	0.15	0.13
tblVehicleEF	MCY	0.00	10.36
tblVehicleEF	MCY	17.40	9.1390e-003
tblVehicleEF	MCY	10.00	0.00
tblVehicleEF	MCY	1.10	0.46
tblVehicleEF	MCY	0.31	0.07
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.6250e-003	2.3720e-003
tblVehicleEF	MCY	3.3780e-003	3.5760e-003
tblVehicleEF	MCY	1.27	3.69
tblVehicleEF	MCY	2.42	0.87
tblVehicleEF	MCY	1.98	0.92
tblVehicleEF	MCY	1.27	3.69
tblVehicleEF	MCY	3.04	1.09
tblVehicleEF	MCY	2.16	1.00
tblVehicleEF	MDV	3.2900e-003	1.7710e-003
tblVehicleEF	MDV	2.5680e-003	0.05
tblVehicleEF	MDV	0.00	0.65
tblVehicleEF	MDV	0.52	0.04
tblVehicleEF	MDV	0.73	0.00
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.04	0.22
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.05	1.22
tblVehicleEF	MDV	8.3090e-003	5.9200e-003
tblVehicleEF	MDV	0.03	0.19

tblVehicleEF	MDV	0.05	1.22
tblVehicleEF	MDV	0.01	8.6170e-003
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MDV	3.5380e-003	1.8440e-003
tblVehicleEF	MDV	2.3090e-003	0.04
tblVehicleEF	MDV	0.00	0.79
tblVehicleEF	MDV	0.59	0.04
tblVehicleEF	MDV	0.65	0.00
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.08	1.32
tblVehicleEF	MDV	8.9240e-003	6.0970e-003
tblVehicleEF	MDV	0.03	0.17
tblVehicleEF	MDV	0.05	1.32
tblVehicleEF	MDV	0.01	8.8750e-003
tblVehicleEF	MDV	0.03	0.19
tblVehicleEF	MDV	3.2150e-003	1.7530e-003
tblVehicleEF	MDV	2.6210e-003	0.05
tblVehicleEF	MDV	0.00	0.60
tblVehicleEF	MDV	0.50	0.04
tblVehicleEF	MDV	0.75	0.00
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.04	0.23
tblVehicleEF	MDV	0.04	9.9970e-003
tblVehicleEF	MDV	9.9900e-004	6.8900e-004
tblVehicleEF	MDV	1.2720e-003	1.0200e-003
tblVehicleEF	MDV	0.04	1.22
tblVehicleEF	MDV	8.1240e-003	5.8720e-003
tblVehicleEF	MDV	0.04	0.19
tblVehicleEF	MDV	0.04	1.22
tblVehicleEF	MDV	0.01	8.5460e-003
tblVehicleEF	MDV	0.04	0.21
tblVehicleEF	MH	3.5930e-003	2.7410e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.15
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.55	0.83
tblVehicleEF	MH	0.51	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.33	1.41

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.33	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.20	0.08
tblVehicleEF	MH	3.6610e-003	2.7810e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.16
tblVehicleEF	MH	0.18	0.10
tblVehicleEF	MH	2.84	0.00
tblVehicleEF	MH	0.52	0.78
tblVehicleEF	MH	0.49	0.27
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.51	1.51
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.07
tblVehicleEF	MH	0.51	1.51
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.19	0.08
tblVehicleEF	MH	3.5760e-003	2.7320e-003
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.00	0.15
tblVehicleEF	MH	0.17	0.10
tblVehicleEF	MH	3.04	0.00
tblVehicleEF	MH	0.54	0.81
tblVehicleEF	MH	0.52	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	5.8900e-003	0.01
tblVehicleEF	MH	8.7100e-004	2.2900e-004
tblVehicleEF	MH	0.31	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.18	0.08
tblVehicleEF	MH	0.31	1.41
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.20	0.08
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7430e-003	9.2270e-003
tblVehicleEF	MHD	0.03	4.9980e-003
tblVehicleEF	MHD	0.32	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.58	8.92
tblVehicleEF	MHD	0.36	8.97
tblVehicleEF	MHD	0.58	0.27



tblVehicleEF	MHD	11.00	1.12
tblVehicleEF	MHD	3.1000e-005	3.0110e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005
tblVehicleEF	MHD	6.9600e-004	0.34
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3480e-003
tblVehicleEF	MHD	0.18	0.02
tblVehicleEF	MHD	6.9600e-004	0.34
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7510e-003	9.2360e-003
tblVehicleEF	MHD	0.03	4.8310e-003
tblVehicleEF	MHD	0.23	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.46	8.31
tblVehicleEF	MHD	0.38	8.53
tblVehicleEF	MHD	0.54	0.25
tblVehicleEF	MHD	10.98	1.12
tblVehicleEF	MHD	2.6000e-005	2.6960e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005
tblVehicleEF	MHD	1.0970e-003	0.36
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3780e-003
tblVehicleEF	MHD	0.17	0.02
tblVehicleEF	MHD	1.0970e-003	0.36
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	1.7410e-003	9.2230e-003
tblVehicleEF	MHD	0.03	5.0250e-003
tblVehicleEF	MHD	0.44	0.09
tblVehicleEF	MHD	0.17	0.21
tblVehicleEF	MHD	2.62	9.78
tblVehicleEF	MHD	0.35	9.57
tblVehicleEF	MHD	0.57	0.27
tblVehicleEF	MHD	11.00	1.12
tblVehicleEF	MHD	3.7000e-005	3.4460e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	2.7160e-003	3.9220e-003
tblVehicleEF	MHD	7.4400e-004	6.3000e-005

tblVehicleEF	MHD	6.0400e-004	0.34
tblVehicleEF	MHD	0.02	0.29
tblVehicleEF	MHD	0.03	6.3390e-003
tblVehicleEF	MHD	0.18	0.03
tblVehicleEF	MHD	6.0400e-004	0.34
tblVehicleEF	MHD	0.03	0.62
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.19	0.03
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	2.9790e-003	0.06
tblVehicleEF	OBUS	0.02	7.4390e-003
tblVehicleEF	OBUS	0.24	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.74	14.81
tblVehicleEF	OBUS	0.20	5.95
tblVehicleEF	OBUS	0.51	0.71
tblVehicleEF	OBUS	2.27	0.83
tblVehicleEF	OBUS	1.8000e-005	6.2920e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	1.4770e-003	0.93
tblVehicleEF	OBUS	0.03	1.00
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.04
tblVehicleEF	OBUS	1.4770e-003	0.93
tblVehicleEF	OBUS	0.05	1.56
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.27	0.04
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	3.0170e-003	0.06
tblVehicleEF	OBUS	0.02	7.1600e-003
tblVehicleEF	OBUS	0.24	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.53	14.63
tblVehicleEF	OBUS	0.20	5.69
tblVehicleEF	OBUS	0.48	0.67
tblVehicleEF	OBUS	2.25	0.82
tblVehicleEF	OBUS	1.5000e-005	5.5480e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	2.2460e-003	1.01
tblVehicleEF	OBUS	0.03	1.04
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.04
tblVehicleEF	OBUS	2.2460e-003	1.01

tblVehicleEF	OBUS	0.05	1.61
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.26	0.04
tblVehicleEF	OBUS	0.01	0.45
tblVehicleEF	OBUS	2.9690e-003	0.06
tblVehicleEF	OBUS	0.02	7.4990e-003
tblVehicleEF	OBUS	0.25	0.44
tblVehicleEF	OBUS	0.23	0.26
tblVehicleEF	OBUS	3.78	15.06
tblVehicleEF	OBUS	0.19	6.31
tblVehicleEF	OBUS	0.50	0.70
tblVehicleEF	OBUS	2.28	0.83
tblVehicleEF	OBUS	2.2000e-005	7.3190e-003
tblVehicleEF	OBUS	0.13	0.06
tblVehicleEF	OBUS	2.5950e-003	0.01
tblVehicleEF	OBUS	1.0380e-003	7.2000e-005
tblVehicleEF	OBUS	1.3810e-003	0.94
tblVehicleEF	OBUS	0.03	0.93
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.04
tblVehicleEF	OBUS	1.3810e-003	0.94
tblVehicleEF	OBUS	0.05	1.48
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.27	0.04
tblVehicleEF	SBUS	0.84	6.27
tblVehicleEF	SBUS	3.5720e-003	1.46
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	9.31	4.70
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	6.24	51.96
tblVehicleEF	SBUS	1.89	3.89
tblVehicleEF	SBUS	0.86	0.41
tblVehicleEF	SBUS	10.08	0.50
tblVehicleEF	SBUS	1.4300e-004	6.7000e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	5.1640e-003	2.10
tblVehicleEF	SBUS	1.13	5.29
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.36	0.18
tblVehicleEF	SBUS	5.1640e-003	2.10
tblVehicleEF	SBUS	1.65	12.79
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.39	0.19
tblVehicleEF	SBUS	0.84	6.27

tblVehicleEF	SBUS	3.6160e-003	1.46
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	9.28	4.70
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	5.00	51.94
tblVehicleEF	SBUS	1.95	3.84
tblVehicleEF	SBUS	0.81	0.38
tblVehicleEF	SBUS	10.06	0.48
tblVehicleEF	SBUS	1.2000e-004	6.6280e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	7.8540e-003	2.26
tblVehicleEF	SBUS	1.13	5.30
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.32	0.16
tblVehicleEF	SBUS	7.8540e-003	2.26
tblVehicleEF	SBUS	1.64	12.79
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.35	0.17
tblVehicleEF	SBUS	0.84	6.27
tblVehicleEF	SBUS	3.5580e-003	1.46
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	9.36	4.69
tblVehicleEF	SBUS	0.27	0.45
tblVehicleEF	SBUS	6.48	51.98
tblVehicleEF	SBUS	1.81	3.95
tblVehicleEF	SBUS	0.85	0.40
tblVehicleEF	SBUS	10.09	0.50
tblVehicleEF	SBUS	1.7400e-004	6.8000e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.6160e-003	3.3060e-003
tblVehicleEF	SBUS	1.3780e-003	3.4600e-004
tblVehicleEF	SBUS	4.7560e-003	2.14
tblVehicleEF	SBUS	1.13	5.29
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.37	0.18
tblVehicleEF	SBUS	4.7560e-003	2.14
tblVehicleEF	SBUS	1.65	12.78
tblVehicleEF	SBUS	0.05	1.50
tblVehicleEF	SBUS	0.40	0.20
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.60	0.60

tblVehicleEF	UBUS	7.53	0.00
tblVehicleEF	UBUS	1.15	0.09
tblVehicleEF	UBUS	12.01	0.12
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	3.9370e-003	0.14
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.73	0.04
tblVehicleEF	UBUS	3.9370e-003	0.14
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.80	0.04
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.61	0.60
tblVehicleEF	UBUS	6.60	0.00
tblVehicleEF	UBUS	1.07	0.09
tblVehicleEF	UBUS	11.96	0.11
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	5.9560e-003	0.17
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.67	0.04
tblVehicleEF	UBUS	5.9560e-003	0.17
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.74	0.04
tblVehicleEF	UBUS	1.05	2.47
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	0.00	28.99
tblVehicleEF	UBUS	4.60	0.60
tblVehicleEF	UBUS	7.66	0.00
tblVehicleEF	UBUS	1.13	0.09
tblVehicleEF	UBUS	12.03	0.12
tblVehicleEF	UBUS	0.50	0.10
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	6.7550e-003	1.0630e-003
tblVehicleEF	UBUS	1.6390e-003	6.0000e-005
tblVehicleEF	UBUS	3.6900e-003	0.14
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	0.74	0.04
tblVehicleEF	UBUS	3.6800e-003	0.14
tblVehicleEF	UBUS	1.15	2.53
tblVehicleEF	UBUS	0.81	0.04

tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HO_TTP	40.60	20.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HS_TTP	19.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblWoodstoves	NumberCatalytic	1,087.05	0.00
tblWoodstoves	NumberCatalytic	197.20	0.00
tblWoodstoves	NumberNoncatalytic	1,087.05	0.00
tblWoodstoves	NumberNoncatalytic	197.20	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7116	38.8976	29.6665	0.0641	18.2675	1.6365	19.8815	9.9840	1.5056	11.4689						
2023	199.4646	779.2119	1,474.7037	6.5255	1,015.5470	4.8690	1,020.4160	261.5079	4.5246	266.0326						
2024	189.8917	767.3446	1,383.9474	6.3772	1,015.5470	4.7263	1,020.2733	261.5080	4.3902	265.8982						
2025	181.2758	752.3051	1,295.0645	6.2026	1,015.5469	4.5623	1,020.1091	261.5079	4.2366	265.7445						
2026	173.9453	739.1576	1,219.8077	6.0506	1,015.5471	4.4381	1,019.9851	261.5080	4.1212	265.6292						
2027	166.7581	726.9110	1,153.0436	5.9163	1,015.5473	4.2498	1,019.7971	261.5081	3.9469	265.4550						
2028	159.3024	716.3613	1,094.8642	5.7984	1,015.5476	4.0172	1,019.5648	261.5082	3.7322	265.2403						
2029	150.9344	706.0977	1,037.6315	5.6937	1,015.5480	3.8064	1,019.3544	261.5083	3.5376	265.0458						
2030	142.3413	691.7747	985.1843	5.6047	1,015.5483	3.2359	1,018.7842	261.5084	3.0130	264.5214						
2031	133.1510	684.3193	936.9409	5.5321	1,015.5484	3.0717	1,018.6200	261.5084	2.8616	264.3700						
2032	124.8558	675.9011	891.8980	5.4608	1,015.5485	2.9102	1,018.4586	261.5085	2.7126	264.2210						
2033	117.7861	668.5354	853.5025	5.3989	1,015.5486	2.7645	1,018.3131	261.5085	2.5783	264.0868						
2034	111.8101	662.1362	816.4564	5.3451	1,015.5488	2.6262	1,018.1750	261.5086	2.4508	263.9594						
2035	106.7560	656.4372	785.7652	5.2993	1,015.5490	2.4465	1,017.9955	261.5086	2.2905	263.7892						
2036	36.1685	4.8899	61.0381	0.3088	48.6451	0.1880	48.8263	12.9009	0.1879	13.0684						
2037	36.1685	4.7619	61.0381	0.3088	48.6451	0.1812	48.8263	12.9009	0.1675	13.0684						
<b>Maximum</b>	<b>199.4646</b>	<b>779.2119</b>	<b>1,474.7037</b>	<b>6.5255</b>	<b>1,015.5490</b>	<b>4.8690</b>	<b>1,020.4160</b>	<b>261.5086</b>	<b>4.5246</b>	<b>266.0326</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	lb/day										lb/day					
2022	3.7116	38.8976	29.6665	0.0641	18.2675	1.6365	19.8815	9.9840	1.5056	11.4689						
2023	199.4646	779.2119	1,474.7037	6.5255	1,015.5470	4.8690	1,020.4160	261.5079	4.5246	266.0326						
2024	189.8917	767.3446	1,383.9474	6.3772	1,015.5470	4.7263	1,020.2733	261.5080	4.3902	265.8982						
2025	181.2758	752.3051	1,295.0645	6.2026	1,015.5469	4.5623	1,020.1091	261.5079	4.2366	265.7445						
2026	173.9453	739.1576	1,219.8077	6.0506	1,015.5471	4.4381	1,019.9851	261.5080	4.1212	265.6292						
2027	166.7581	726.9110	1,153.0436	5.9163	1,015.5473	4.2498	1,019.7971	261.5081	3.9469	265.4550						
2028	159.3024	716.3613	1,094.8642	5.7984	1,015.5476	4.0172	1,019.5648	261.5082	3.7322	265.2403						
2029	150.9344	706.0977	1,037.6315	5.6937	1,015.5480	3.8064	1,019.3544	261.5083	3.5376	265.0458						
2030	142.3413	691.7747	985.1843	5.6047	1,015.5483	3.2359	1,018.7842	261.5084	3.0130	264.5214						
2031	133.1510	684.3193	936.9409	5.5321	1,015.5484	3.0717	1,018.6200	261.5084	2.8616	264.3700						
2032	124.8558	675.9011	891.8980	5.4608	1,015.5485	2.9102	1,018.4586	261.5085	2.7126	264.2210						
2033	117.7861	668.5354	853.5025	5.3989	1,015.5486	2.7645	1,018.3131	261.5085	2.5763	264.0868						
2034	111.8101	662.1362	816.4564	5.3451	1,015.5488	2.6262	1,018.1750	261.5086	2.4508	263.9594						
2035	106.7560	656.4372	785.7862	5.2993	1,015.5490	2.4465	1,017.9955	261.5086	2.2805	263.7892						
2036	36.1685	4.8899	61.0381	0.3088	48.6451	0.1880	48.8263	12.9009	0.1879	13.0684						
2037	36.1685	4.7619	61.0381	0.3088	48.6451	0.1812	48.8263	12.9009	0.1675	13.0684						
<b>Maximum</b>	<b>199.4646</b>	<b>779.2119</b>	<b>1,474.7037</b>	<b>6.5255</b>	<b>1,015.5490</b>	<b>4.8690</b>	<b>1,020.4160</b>	<b>261.5086</b>	<b>4.5246</b>	<b>266.0326</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>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Energy	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
Mobile	1,641.9653	4,407.4372	5,271.9825	24.1933	2,493.8575	17.0716	2,510.9291	723.7155	9.3854	733.1009						
<b>Total</b>	<b>2,695.0150</b>	<b>5,151.5785</b>	<b>7,709.8991</b>	<b>28.8805</b>	<b>2,493.8575</b>	<b>86.7804</b>	<b>2,580.6379</b>	<b>723.7155</b>	<b>79.0942</b>	<b>802.8097</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	lb/day										lb/day					
Area	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Energy	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
Mobile	1,641.9653	4,407.4372	5,271.9825	24.1933	2,493.8575	17.0716	2,510.9291	723.7155	9.3854	733.1009						
<b>Total</b>	<b>2,695.0150</b>	<b>5,151.5785</b>	<b>7,709.8991</b>	<b>28.8805</b>	<b>2,493.8575</b>	<b>86.7804</b>	<b>2,580.6379</b>	<b>723.7155</b>	<b>79.0942</b>	<b>802.8097</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	6/17/2022	5	6000	
2	Grading	Grading	6/18/2022	8/25/2023	5	15500	
3	Building Construction	Building Construction	8/26/2023	7/13/2035	5	155000	
4	Paving	Paving	7/14/2035	5/16/2036	5	11000	
5	Architectural Coating	Architectural Coating	5/17/2036	3/20/2037	5	11000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 58,401,405; Residential Outdoor: 19,467,135; Non-Residential Indoor: 19,168,467; Non-Residential Outdoor:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45



Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21,762.00	4,840.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21,762.00	4,840.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		4,352.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836						
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>						

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**Mitigated Construction On-Site**

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

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836						
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0781	0.0487	0.5625	1.8000e-003	0.2012	1.4400e-003	0.2026	0.0534	1.3200e-003	0.0547						
<b>Total</b>	<b>0.0781</b>	<b>0.0487</b>	<b>0.5625</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.4400e-003</b>	<b>0.2026</b>	<b>0.0534</b>	<b>1.3200e-003</b>	<b>0.0547</b>						

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041						
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0868</b>	<b>0.0541</b>	<b>0.6250</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041						
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608						
<b>Total</b>	<b>0.0868</b>	<b>0.0541</b>	<b>0.6250</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.6000e-003</b>	<b>0.2252</b>	<b>0.0593</b>	<b>1.4700e-003</b>	<b>0.0608</b>						

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105						
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607						
<b>Total</b>	<b>0.0818</b>	<b>0.0490</b>	<b>0.5760</b>	<b>1.9300e-003</b>	<b>0.2236</b>	<b>1.5600e-003</b>	<b>0.2251</b>	<b>0.0593</b>	<b>1.4300e-003</b>	<b>0.0607</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	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965						
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105						
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607						
<b>Total</b>	<b>0.0818</b>	<b>0.0490</b>	<b>0.5760</b>	<b>1.9300e-003</b>	<b>0.2236</b>	<b>1.5600e-003</b>	<b>0.2251</b>	<b>0.0593</b>	<b>1.4300e-003</b>	<b>0.0607</b>						

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584						
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.8528	658.2854	204.9931	2.3024	106.1059	0.7612	106.8871	28.6731	0.7465	29.4198						
Worker	178.0391	106.5416	1,253.4666	4.1962	909.4411	3.3881	912.8292	232.8349	3.1195	235.9543						

<b>Total</b>	<b>197.8918</b>	<b>764.8270</b>	<b>1,458.4597</b>	<b>6.4986</b>	<b>1,015.5470</b>	<b>4.1693</b>	<b>1,019.7163</b>	<b>261.5079</b>	<b>3.8662</b>	<b>265.3742</b>							
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584							
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	19.8528	658.2854	204.9931	2.3024	106.1059	0.7812	106.8871	28.6731	0.7468	29.4198						
Worker	178.0391	106.5416	1,253.4666	4.1962	909.4411	3.3881	912.8292	232.8349	3.1195	235.9543						
<b>Total</b>	<b>197.8918</b>	<b>764.8270</b>	<b>1,458.4597</b>	<b>6.4986</b>	<b>1,015.5470</b>	<b>4.1693</b>	<b>1,019.7163</b>	<b>261.5079</b>	<b>3.8662</b>	<b>265.3742</b>						

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769						
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</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	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	19.4226	656.8460	199.1140	2.2931	106.1059	0.7697	106.8756	28.6731	0.7358	29.4089						
Worker	168.9975	97.0548	1,168.6666	4.0572	909.4411	3.3433	912.7844	232.8349	3.0775	235.9124						
<b>Total</b>	<b>188.4201</b>	<b>753.9009</b>	<b>1,367.7806</b>	<b>6.3503</b>	<b>1,015.5470</b>	<b>4.1130</b>	<b>1,019.6600</b>	<b>261.5080</b>	<b>3.8133</b>	<b>265.3213</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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769						
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	19.4226	656.8460	199.1140	2.2931	106.1059	0.7697	106.8756	28.6731	0.7358	29.4089						
Worker	168.9975	97.0548	1,168.6666	4.0572	909.4411	3.3433	912.7844	232.8349	3.0775	235.9124						
<b>Total</b>	<b>188.4201</b>	<b>753.9009</b>	<b>1,367.7806</b>	<b>6.3503</b>	<b>1,015.5470</b>	<b>4.1130</b>	<b>1,019.6600</b>	<b>261.5080</b>	<b>3.8133</b>	<b>265.3213</b>						

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.9257	651.1034	193.9105	2.2790	106.1058	0.7555	106.8613	28.6731	0.7222	29.3952						
Worker	160.9827	88.7321	1,085.0693	3.8967	909.4411	3.2792	912.7203	232.8349	3.0181	235.8530						
<b>Total</b>	<b>179.9084</b>	<b>739.8355</b>	<b>1,278.9799</b>	<b>6.1757</b>	<b>1,015.5469</b>	<b>4.0347</b>	<b>1,019.5816</b>	<b>261.5079</b>	<b>3.7403</b>	<b>265.2482</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.9257	651.1034	193.9105	2.2790	106.1058	0.7555	106.8613	28.6731	0.7222	29.3952						
Worker	160.9827	88.7321	1,085.0693	3.8967	909.4411	3.2792	912.7203	232.8349	3.0181	235.8530						
<b>Total</b>	<b>179.9084</b>	<b>739.8355</b>	<b>1,278.9799</b>	<b>6.1757</b>	<b>1,015.5469</b>	<b>4.0347</b>	<b>1,019.5816</b>	<b>261.5079</b>	<b>3.7403</b>	<b>265.2482</b>						

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.4914	645.0124	189.8886	2.2657	106.1060	0.7396	106.8455	28.6731	0.7069	29.3801						
Worker	154.0865	81.6755	1,013.8344	3.7579	909.4411	3.1709	912.6120	232.8349	2.9180	235.7529						
<b>Total</b>	<b>172.5779</b>	<b>726.6879</b>	<b>1,203.7230</b>	<b>6.0236</b>	<b>1,015.5471</b>	<b>3.9105</b>	<b>1,019.4576</b>	<b>261.5080</b>	<b>3.6250</b>	<b>265.1330</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.4914	645.0124	189.8886	2.2657	106.1060	0.7396	106.8455	28.6731	0.7069	29.3801						
Worker	154.0865	81.6755	1,013.8344	3.7579	909.4411	3.1709	912.6120	232.8349	2.9180	235.7529						
<b>Total</b>	<b>172.5779</b>	<b>726.6879</b>	<b>1,203.7230</b>	<b>6.0236</b>	<b>1,015.5471</b>	<b>3.9105</b>	<b>1,019.4576</b>	<b>261.5080</b>	<b>3.6250</b>	<b>265.1330</b>						

**3.4 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.1271	639.1159	186.6447	2.2538	106.1062	0.7245	106.8307	28.6732	0.6925	29.3657						
Worker	147.2636	75.3254	950.3143	3.6356	909.4411	2.9977	912.4389	232.8349	2.7582	235.5930						
<b>Total</b>	<b>165.3907</b>	<b>714.4413</b>	<b>1,136.9590</b>	<b>5.8893</b>	<b>1,015.5473</b>	<b>3.7222</b>	<b>1,019.2695</b>	<b>261.5081</b>	<b>3.4507</b>	<b>264.9587</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	18.1271	639.1159	186.6447	2.2538	106.1062	0.7245	106.8307	28.6732	0.6925	29.3657						
Worker	147.2636	75.3254	950.3143	3.6356	909.4411	2.9977	912.4389	232.8349	2.7582	235.5930						
<b>Total</b>	<b>165.3907</b>	<b>714.4413</b>	<b>1,136.9590</b>	<b>5.8893</b>	<b>1,015.5473</b>	<b>3.7222</b>	<b>1,019.2695</b>	<b>261.5081</b>	<b>3.4507</b>	<b>264.9587</b>						

**3.4 Building Construction - 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	lb/day										lb/day					

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963							
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.8158	634.2658	184.1423	2.2437	106.1065	0.7124	106.8189	28.6733	0.6809	29.3542						
Worker	140.1193	69.6259	894.6373	3.5278	909.4411	2.7773	912.2184	232.8349	2.5550	235.3899						
<b>Total</b>	<b>157.9350</b>	<b>703.8917</b>	<b>1,078.7796</b>	<b>5.7715</b>	<b>1,015.5476</b>	<b>3.4896</b>	<b>1,019.0372</b>	<b>261.5082</b>	<b>3.2359</b>	<b>264.7441</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.8158	634.2658	184.1423	2.2437	106.1065	0.7124	106.8189	28.6733	0.6809	29.3542						
Worker	140.1193	69.6259	894.6373	3.5278	909.4411	2.7773	912.2184	232.8349	2.5550	235.3899						
<b>Total</b>	<b>157.9350</b>	<b>703.8917</b>	<b>1,078.7796</b>	<b>5.7715</b>	<b>1,015.5476</b>	<b>3.4896</b>	<b>1,019.0372</b>	<b>261.5082</b>	<b>3.2359</b>	<b>264.7441</b>						

**3.4 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.5320	629.5110	181.8088	2.2347	106.1068	0.6986	106.8055	28.6734	0.6678	29.3412						
Worker	132.0350	64.1171	839.7381	3.4320	909.4411	2.5802	912.0213	232.8349	2.3735	235.2084						
<b>Total</b>	<b>149.5670</b>	<b>693.6280</b>	<b>1,021.5468</b>	<b>5.6667</b>	<b>1,015.5480</b>	<b>3.2789</b>	<b>1,018.8268</b>	<b>261.5083</b>	<b>3.0413</b>	<b>264.5496</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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963						
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.5320	629.5110	181.8088	2.2347	106.1068	0.6986	106.8055	28.6734	0.6678	29.3412						
Worker	132.0350	64.1171	839.7381	3.4320	909.4411	2.5802	912.0213	232.8349	2.3735	235.2084						
<b>Total</b>	<b>149.5670</b>	<b>693.6280</b>	<b>1,021.5468</b>	<b>5.6667</b>	<b>1,015.5480</b>	<b>3.2789</b>	<b>1,018.8268</b>	<b>261.5083</b>	<b>3.0413</b>	<b>264.5496</b>						

**3.4 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.2892	624.9327	180.0365	2.2267	106.1072	0.6855	106.7927	28.6736	0.6552	29.3288						
Worker	123.7429	58.9074	788.9909	3.3471	909.4411	2.4023	911.8434	232.8349	2.2097	235.0445						
<b>Total</b>	<b>141.0321</b>	<b>683.8401</b>	<b>969.0274</b>	<b>5.5738</b>	<b>1,015.5483</b>	<b>3.0878</b>	<b>1,018.6360</b>	<b>261.5084</b>	<b>2.8649</b>	<b>264.3733</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.2892	624.9327	180.0365	2.2267	106.1072	0.6855	106.7927	28.6736	0.6552	29.3288						
Worker	123.7429	58.9074	788.9909	3.3471	909.4411	2.4023	911.8434	232.8349	2.2097	235.0445						

Total	141.0321	683.8401	969.0274	5.5738	1,015.5483	3.0878	1,018.6360	261.5084	2.8649	264.3733							
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### 3.4 Building Construction - 2031

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	17.2067	622.6016	179.5601	2.2241	106.1073	0.6763	106.7835	28.6736	0.6463	29.3199							
Worker	114.6352	53.7831	741.2238	3.2771	909.4411	2.2473	911.6884	232.8349	2.0671	234.9019							
Total	131.8419	676.3847	920.7839	5.5012	1,015.5484	2.9235	1,018.4719	261.5084	2.7134	264.2219							

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							

#### Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	17.2067	622.6016	179.5601	2.2241	106.1073	0.6763	106.7835	28.6736	0.6463	29.3199							
Worker	114.6352	63.7831	741.2238	3.2771	909.4411	2.2473	911.6884	232.8349	2.0671	234.9019							
<b>Total</b>	<b>131.8419</b>	<b>676.3847</b>	<b>920.7839</b>	<b>5.5012</b>	<b>1,015.5484</b>	<b>2.9235</b>	<b>1,018.4719</b>	<b>261.5084</b>	<b>2.7134</b>	<b>264.2219</b>							

### 3.4 Building Construction - 2032

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481							
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.0563	618.6526	178.7698	2.2191	106.1074	0.6666	106.7740	28.6736	0.6371	29.3107						
Worker	106.4904	49.3139	696.9713	3.2107	909.4411	2.0954	911.5365	232.8349	1.9273	234.7622						
<b>Total</b>	<b>123.5467</b>	<b>667.9665</b>	<b>875.7410</b>	<b>5.4298</b>	<b>1,015.5485</b>	<b>2.7620</b>	<b>1,018.3105</b>	<b>261.5085</b>	<b>2.5644</b>	<b>264.0729</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	17.0563	618.6526	178.7698	2.2191	106.1074	0.6586	106.7740	28.6736	0.6371	29.3107						
Worker	106.4904	49.3139	696.9713	3.2107	909.4411	2.0954	911.5365	232.8349	1.9273	234.7622						
<b>Total</b>	<b>123.5467</b>	<b>667.9665</b>	<b>875.7410</b>	<b>5.4298</b>	<b>1,015.5485</b>	<b>2.7620</b>	<b>1,018.3105</b>	<b>261.5085</b>	<b>2.5644</b>	<b>264.0729</b>						

### 3.4 Building Construction - 2033

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.9492	615.0690	178.2469	2.2152	106.1075	0.6582	106.7657	28.6737	0.6290	29.3027						
Worker	99.5278	45.5318	659.0966	3.1527	909.4411	1.9582	911.3993	232.8349	1.8011	234.6360						
<b>Total</b>	<b>116.4770</b>	<b>660.6008</b>	<b>837.3455</b>	<b>5.3679</b>	<b>1,015.5486</b>	<b>2.6163</b>	<b>1,018.1649</b>	<b>261.5085</b>	<b>2.4301</b>	<b>263.9386</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.9492	615.0690	178.2469	2.2152	106.1075	0.6582	106.7657	28.6737	0.6290	29.3027						
Worker	99.5278	45.5318	659.0966	3.1527	909.4411	1.9582	911.3993	232.8349	1.8011	234.6360						
<b>Total</b>	<b>116.4770</b>	<b>660.6008</b>	<b>837.3455</b>	<b>5.3679</b>	<b>1,015.5486</b>	<b>2.6163</b>	<b>1,018.1649</b>	<b>261.5085</b>	<b>2.4301</b>	<b>263.9386</b>						

**3.4 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.8534	611.8357	177.6914	2.2122	106.1077	0.6497	106.7574	28.6737	0.6209	29.2946						
Worker	93.6476	42.3659	622.6081	3.1019	909.4411	1.8284	911.2695	232.8349	1.6817	234.5166						
<b>Total</b>	<b>110.5010</b>	<b>654.2016</b>	<b>800.2995</b>	<b>5.3141</b>	<b>1,015.5488</b>	<b>2.4781</b>	<b>1,018.0269</b>	<b>261.5086</b>	<b>2.3027</b>	<b>263.8112</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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481						
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.8534	611.8357	177.6914	2.2122	106.1077	0.6497	106.7574	28.6737	0.6209	29.2946						
Worker	93.6476	42.3659	622.6081	3.1019	909.4411	1.8284	911.2695	232.8349	1.6817	234.5166						
<b>Total</b>	<b>110.5010</b>	<b>654.2016</b>	<b>800.2995</b>	<b>5.3141</b>	<b>1,015.5488</b>	<b>2.4781</b>	<b>1,018.0269</b>	<b>261.5086</b>	<b>2.3027</b>	<b>263.8112</b>						

**3.4 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904						
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.7719	609.2302	177.1554	2.2059	106.1079	0.6430	106.7509	28.6738	0.6145	29.2883						
Worker	88.7673	40.0457	692.4930	3.0584	909.4411	1.7131	911.1542	232.8349	1.5757	234.4105						
<b>Total</b>	<b>105.5392</b>	<b>649.2759</b>	<b>769.6484</b>	<b>5.2684</b>	<b>1,015.5490</b>	<b>2.3561</b>	<b>1,017.9051</b>	<b>261.5086</b>	<b>2.1902</b>	<b>263.6988</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	lb/day										lb/day					

Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904							
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	16.7719	609.2302	177.1554	2.2099	106.1079	0.6430	106.7509	28.6738	0.6145	29.2883						
Worker	88.7673	40.0457	592.4930	3.0584	909.4411	1.7131	911.1542	232.8349	1.5757	234.4105						
<b>Total</b>	<b>105.5392</b>	<b>649.2759</b>	<b>769.6484</b>	<b>5.2684</b>	<b>1,015.5490</b>	<b>2.3561</b>	<b>1,017.9051</b>	<b>261.5086</b>	<b>2.1902</b>	<b>263.6988</b>						

**3.5 Paving - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0306	0.0138	0.2042	1.0500e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0306</b>	<b>0.0138</b>	<b>0.2042</b>	<b>1.0500e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</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	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0306	0.0138	0.2042	1.0500e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0306</b>	<b>0.0138</b>	<b>0.2042</b>	<b>1.0500e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</b>						

**3.5 Paving - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0306	0.0138	0.2042	1.0500e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0306</b>	<b>0.0138</b>	<b>0.2042</b>	<b>1.0500e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</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	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0306	0.0138	0.2042	1.0500e-003	0.1677	5.9000e-004	0.1683	0.0445	5.4000e-004	0.0450						
<b>Total</b>	<b>0.0306</b>	<b>0.0138</b>	<b>0.2042</b>	<b>1.0500e-003</b>	<b>0.1677</b>	<b>5.9000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.4000e-004</b>	<b>0.0450</b>						

**3.6 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003						
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	8.8759	4.0042	59.2439	0.3058	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						

<b>Total</b>	<b>8.8759</b>	<b>4.0042</b>	<b>59.2439</b>	<b>0.3058</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</b>							
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003							
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	8.8759	4.0042	59.2439	0.3058	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585							
<b>Total</b>	<b>8.8759</b>	<b>4.0042</b>	<b>59.2439</b>	<b>0.3058</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</b>							

**3.6 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003							
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	8.8759	4.0042	59.2439	0.3058	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						
<b>Total</b>	<b>8.8759</b>	<b>4.0042</b>	<b>59.2439</b>	<b>0.3058</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</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	lb/day										lb/day					
Archit. Coating	27.1747					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003						
<b>Total</b>	<b>27.2926</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	8.8759	4.0042	59.2439	0.3058	48.6451	0.1713	48.8164	12.9009	0.1576	13.0585						
<b>Total</b>	<b>8.8759</b>	<b>4.0042</b>	<b>59.2439</b>	<b>0.3058</b>	<b>48.6451</b>	<b>0.1713</b>	<b>48.8164</b>	<b>12.9009</b>	<b>0.1576</b>	<b>13.0585</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	lb/day										lb/day					
Mitigated	1,641.96535	4,407.43725	5,271.9825	24.1933	2,493.8575	17.0716	2,510.9291	723.7155	9.3854	733.1009						
Unmitigated	1,641.96535	4,407.43725	5,271.9825	24.1933	2,493.8575	17.0716	2,510.9291	723.7155	9.3854	733.1009						

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	143,273.19	155,665.56	131967.87	462,575,646	462,575,646
General Office Building	29,082.47	8,486.21	2768.50	71,179,129	71,179,129
Hotel	9,632.43	9,656.01	7015.05	22,100,447	22,100,447
Manufacturing	6,567.34	2,561.61	1065.90	23,067,677	23,067,677
Movie Theater (No Matinee)	12,177.36	15,487.68	12776.40	26,987,467	26,987,467
Regional Shopping Center	177,085.44	207,235.58	104675.33	369,950,786	369,950,786
Single Family Housing	37,546.88	39,085.04	33997.28	120,166,870	120,166,870
Unrefrigerated Warehouse-No Rail	4,045.44	4,045.44	4045.44	17,337,611	17,337,611
<b>Total</b>	<b>419,410.55</b>	<b>440,223.13</b>	<b>298,311.78</b>	<b>1,113,365,632</b>	<b>1,113,365,632</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Single Family Housing	14.70	5.90	8.70	40.00	40.00	20.00	86	11	3
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
General Office Building	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Hotel	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Manufacturing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Movie Theater (No Matinee)	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Regional Shopping Center	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Single Family Housing	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722
Unrefrigerated Warehouse-No Rail	0.550167	0.040939	0.205797	0.110554	0.011916	0.005723	0.023174	0.041705	0.002259	0.001412	0.004923	0.000709	0.000722

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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
NaturalGas Mitigated	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						
NaturalGas Unmitigated	18.4910	161.0036	89.1616	1.0086		12.7756	12.7756		12.7756	12.7756						

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	900818	9.7147	83.0166	35.3262	0.5299		6.7120	6.7120		6.7120	6.7120						
General Office Building	24849.7	0.2680	2.4363	2.0465	0.0146		0.1852	0.1852		0.1852	0.1852						
Hotel	278924	3.0080	27.3455	22.9702	0.1641		2.0783	2.0783		2.0783	2.0783						
Manufacturing	152326	1.6427	14.9339	12.5445	0.0896		1.1350	1.1350		1.1350	1.1350						
Movie Theater (No Matinee)	13822	0.1491	1.3551	1.1383	8.1300e-003		0.1030	0.1030		0.1030	0.1030						
Regional Shopping Center	24996.8	0.2696	2.4507	2.0586	0.0147		0.1863	0.1863		0.1863	0.1863						
Single Family Housing	305627	3.2960	28.1656	11.9854	0.1798		2.2772	2.2772		2.2772	2.2772						
Unrefrigerated Warehouse-No Det	13260.5	0.1430	1.3001	1.0920	7.8000e-003		0.0988	0.0988		0.0988	0.0988						
<b>Total</b>		<b>18.4910</b>	<b>161.0036</b>	<b>89.1616</b>	<b>1.0086</b>		<b>12.7756</b>	<b>12.7756</b>		<b>12.7756</b>	<b>12.7756</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	lb/day										lb/day					
Apartments Low Rise	900.818	9.7147	83.0166	35.3262	0.5299		6.7120	6.7120		6.7120	6.7120						
General Office Building	24.8497	0.2680	2.4363	2.0465	0.0146		0.1852	0.1852		0.1852	0.1852						
Hotel	278.924	3.0080	27.3455	22.9702	0.1641		2.0783	2.0783		2.0783	2.0783						
Manufacturing	152.326	1.6427	14.9339	12.5445	0.0896		1.1350	1.1350		1.1350	1.1350						
Movie Theater (No Matinee)	13.822	0.1491	1.3551	1.1383	8.1300e-003		0.1030	0.1030		0.1030	0.1030						
Regional Shopping Center	24.9968	0.2696	2.4507	2.0586	0.0147		0.1863	0.1863		0.1863	0.1863						
Single Family Housing	305.627	3.2960	28.1656	11.9854	0.1798		2.2772	2.2772		2.2772	2.2772						
Unrefrigerated Warehouse-No Det	13.2605	0.1430	1.3001	1.0920	7.8000e-003		0.0988	0.0988		0.0988	0.0988						
<b>Total</b>		<b>18.4910</b>	<b>161.0036</b>	<b>89.1616</b>	<b>1.0086</b>		<b>12.7756</b>	<b>12.7756</b>		<b>12.7756</b>	<b>12.7756</b>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						
Unmitigated	1,034.5587	583.1377	2,348.7550	3.6786		56.9332	56.9332		56.9332	56.9332						

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	81.8963					0.0000	0.0000		0.0000	0.0000						
Consumer Products	824.0597					0.0000	0.0000		0.0000	0.0000						
Hearth	65.3885	558.7747	237.7765	3.5667		45.1775	45.1775		45.1775	45.1775						
Landscaping	63.2141	24.3630	2,110.9785	0.1120		11.7556	11.7556		11.7556	11.7556						
<b>Total</b>	<b>1,034.5587</b>	<b>583.1377</b>	<b>2,348.7550</b>	<b>3.6786</b>		<b>56.9332</b>	<b>56.9332</b>		<b>56.9332</b>	<b>56.9332</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	lb/day										lb/day					
Architectural Coating	81.8963					0.0000	0.0000		0.0000	0.0000						
Consumer Products	824.0597					0.0000	0.0000		0.0000	0.0000						
Hearth	65.3885	558.7747	237.7765	3.5667		45.1775	45.1775		45.1775	45.1775						
Landscaping	63.2141	24.3630	2,110.9785	0.1120		11.7556	11.7556		11.7556	11.7556						
<b>Total</b>	<b>1,034.5587</b>	<b>583.1377</b>	<b>2,348.7550</b>	<b>3.6786</b>		<b>56.9332</b>	<b>56.9332</b>		<b>56.9332</b>	<b>56.9332</b>						

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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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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