

9010 Blue Wave - San Diego County APCD Air District, Summer

**9010 Blue Wave**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	5.38	1000sqft	0.12	5,385.00	0
Hotel	47.00	Room	0.58	18,148.00	0
Apartments Mid Rise	51.00	Dwelling Unit	0.57	40,149.00	146
Strip Mall	1.21	1000sqft	0.03	1,205.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	457.25	<b>CH4 Intensity (lb/MW hr)</b>	0.018	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%  
(457.25, 0.018, 0.004)

Land Use - 1.3 acre site

Construction Phase - Grading phase extended to account for excavation for underground parking  
Arch coatings simultaneous with last half of building construction

Trips and VMT -

Demolition -

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - TIA

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen 20% decrease in indoor water use  
(2,658,284.25, 1,306,409.10, 953,790.55, 71,742.20)

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100

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tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	100.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	5.10	51.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	17,500.00
tblLandUse	LandUseSquareFeet	5,380.00	5,385.00
tblLandUse	LandUseSquareFeet	68,244.00	18,148.00
tblLandUse	LandUseSquareFeet	51,000.00	40,149.00
tblLandUse	LandUseSquareFeet	1,210.00	1,205.00
tblLandUse	LotAcreage	1.57	0.58
tblLandUse	LotAcreage	1.34	0.57
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	CW_TL	9.50	5.60

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tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	HO_TL	7.50	5.60
tblVehicleTrips	HS_TL	7.30	5.60
tblVehicleTrips	HW_TL	10.80	5.60
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	ST_TR	158.37	100.00
tblVehicleTrips	ST_TR	8.19	9.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	5.86	6.00
tblVehicleTrips	SU_TR	131.84	100.00
tblVehicleTrips	SU_TR	5.95	9.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.65	6.00
tblVehicleTrips	WD_TR	127.15	100.00
tblVehicleTrips	WD_TR	8.17	9.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWater	IndoorWaterUseRate	3,322,855.31	2,658,284.25
tblWater	IndoorWaterUseRate	1,633,011.37	1,306,409.10
tblWater	IndoorWaterUseRate	1,192,238.19	953,790.55
tblWater	IndoorWaterUseRate	89,627.75	71,742.20
tblWoodstoves	NumberCatalytic	2.55	0.00
tblWoodstoves	NumberNoncatalytic	2.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

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**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	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Energy	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
Mobile	1.9285	6.8214	16.1659	0.0462	3.5204	0.0461	3.5664	0.9410	0.0432	0.9841		4,687.0378	4,687.0378	0.2825		4,694.1002
<b>Total</b>	<b>3.7421</b>	<b>7.5034</b>	<b>20.8852</b>	<b>0.0502</b>	<b>3.5204</b>	<b>0.1179</b>	<b>3.6382</b>	<b>0.9410</b>	<b>0.1150</b>	<b>1.0560</b>	<b>0.0000</b>	<b>5,461.7128</b>	<b>5,461.7128</b>	<b>0.3046</b>	<b>0.0141</b>	<b>5,473.5191</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	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Energy	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
Mobile	1.6965	5.4179	10.8650	0.0256	1.7524	0.0271	1.7794	0.4684	0.0253	0.4937		2,608.8536	2,608.8536	0.1881		2,613.5564
<b>Total</b>	<b>3.5100</b>	<b>6.0999</b>	<b>15.5842</b>	<b>0.0297</b>	<b>1.7524</b>	<b>0.0989</b>	<b>1.8512</b>	<b>0.4684</b>	<b>0.0971</b>	<b>0.5655</b>	<b>0.0000</b>	<b>3,383.5287</b>	<b>3,383.5287</b>	<b>0.2102</b>	<b>0.0141</b>	<b>3,392.9754</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.20	18.70	25.38	40.85	50.22	16.13	49.12	50.22	15.53	46.44	0.00	38.05	38.05	30.99	0.00	38.01

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading/Excavation	Grading	2/5/2019	4/29/2019	5	60	
4	Building Construction	Building Construction	4/30/2019	2/3/2020	5	200	
5	Architectural Coating	Architectural Coating	9/17/2019	2/3/2020	5	100	
6	Paving	Paving	2/4/2020	2/17/2020	5	10	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 81,302; Residential Outdoor: 27,101; Non-Residential Indoor: 37,107; Non-Residential Outdoor: 12,369; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading/Excavation	Graders	1	6.00	187	0.41
Grading/Excavation	Rubber Tired Dozers	1	6.00	247	0.40
Grading/Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Excavation	3	8.00	0.00	2,188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	47.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1246	0.0000	0.1246	0.0189	0.0000	0.0189			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.1246</b>	<b>1.2863</b>	<b>1.4109</b>	<b>0.0189</b>	<b>1.2017</b>	<b>1.2206</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

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**3.2 Demolition - 2019**

**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	4.7700e-003	0.1652	0.0357	4.4000e-004	9.6100e-003	6.2000e-004	0.0102	2.6300e-003	6.0000e-004	3.2300e-003		47.6010	47.6010	4.2100e-003		47.7063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0356	0.4022	1.1400e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		113.1260	113.1260	3.6100e-003		113.2163
<b>Total</b>	<b>0.0558</b>	<b>0.2008</b>	<b>0.4379</b>	<b>1.5800e-003</b>	<b>0.1164</b>	<b>1.3800e-003</b>	<b>0.1178</b>	<b>0.0310</b>	<b>1.3000e-003</b>	<b>0.0323</b>		<b>160.7270</b>	<b>160.7270</b>	<b>7.8200e-003</b>		<b>160.9226</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					0.1246	0.0000	0.1246	0.0189	0.0000	0.0189			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.1246</b>	<b>1.2863</b>	<b>1.4109</b>	<b>0.0189</b>	<b>1.2017</b>	<b>1.2206</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

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**3.2 Demolition - 2019**

**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	4.7700e-003	0.1652	0.0357	4.4000e-004	9.6100e-003	6.2000e-004	0.0102	2.6300e-003	6.0000e-004	3.2300e-003		47.6010	47.6010	4.2100e-003		47.7063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0356	0.4022	1.1400e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		113.1260	113.1260	3.6100e-003		113.2163
<b>Total</b>	<b>0.0558</b>	<b>0.2008</b>	<b>0.4379</b>	<b>1.5800e-003</b>	<b>0.1164</b>	<b>1.3800e-003</b>	<b>0.1178</b>	<b>0.0310</b>	<b>1.3000e-003</b>	<b>0.0323</b>		<b>160.7270</b>	<b>160.7270</b>	<b>7.8200e-003</b>		<b>160.9226</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
<b>Total</b>	<b>0.0314</b>	<b>0.0219</b>	<b>0.2475</b>	<b>7.0000e-004</b>	<b>0.0657</b>	<b>4.7000e-004</b>	<b>0.0662</b>	<b>0.0174</b>	<b>4.3000e-004</b>	<b>0.0179</b>		<b>69.6160</b>	<b>69.6160</b>	<b>2.2200e-003</b>		<b>69.6716</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
<b>Total</b>	<b>0.0314</b>	<b>0.0219</b>	<b>0.2475</b>	<b>7.0000e-004</b>	<b>0.0657</b>	<b>4.7000e-004</b>	<b>0.0662</b>	<b>0.0174</b>	<b>4.3000e-004</b>	<b>0.0179</b>		<b>69.6160</b>	<b>69.6160</b>	<b>2.2200e-003</b>		<b>69.6716</b>

**3.4 Grading/Excavation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9552	0.0000	4.9552	2.5318	0.0000	2.5318			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.9552</b>	<b>0.7365</b>	<b>5.6917</b>	<b>2.5318</b>	<b>0.6775</b>	<b>3.2094</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.4 Grading/Excavation - 2019**

**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	0.3165	10.9536	2.3645	0.0289	0.6372	0.0413	0.6786	0.1746	0.0396	0.2142		3,156.0905	3,156.0905	0.2793		3,163.0730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
<b>Total</b>	<b>0.3480</b>	<b>10.9755</b>	<b>2.6120</b>	<b>0.0296</b>	<b>0.7029</b>	<b>0.0418</b>	<b>0.7447</b>	<b>0.1921</b>	<b>0.0400</b>	<b>0.2320</b>		<b>3,225.7065</b>	<b>3,225.7065</b>	<b>0.2815</b>		<b>3,232.7445</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					4.9552	0.0000	4.9552	2.5318	0.0000	2.5318			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.9552</b>	<b>0.7365</b>	<b>5.6917</b>	<b>2.5318</b>	<b>0.6775</b>	<b>3.2094</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.4 Grading/Excavation - 2019**

**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	0.3165	10.9536	2.3645	0.0289	0.6372	0.0413	0.6786	0.1746	0.0396	0.2142		3,156.0905	3,156.0905	0.2793		3,163.0730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
<b>Total</b>	<b>0.3480</b>	<b>10.9755</b>	<b>2.6120</b>	<b>0.0296</b>	<b>0.7029</b>	<b>0.0418</b>	<b>0.7447</b>	<b>0.1921</b>	<b>0.0400</b>	<b>0.2320</b>		<b>3,225.7065</b>	<b>3,225.7065</b>	<b>0.2815</b>		<b>3,232.7445</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0460	1.2399	0.3201	2.7600e-003	0.0677	8.6300e-003	0.0763	0.0195	8.2500e-003	0.0277		296.0166	296.0166	0.0229		296.5880
Worker	0.1845	0.1288	1.4542	4.1100e-003	0.3861	2.7500e-003	0.3889	0.1024	2.5400e-003	0.1050		408.9938	408.9938	0.0131		409.3203
<b>Total</b>	<b>0.2306</b>	<b>1.3687</b>	<b>1.7743</b>	<b>6.8700e-003</b>	<b>0.4538</b>	<b>0.0114</b>	<b>0.4652</b>	<b>0.1219</b>	<b>0.0108</b>	<b>0.1327</b>		<b>705.0105</b>	<b>705.0105</b>	<b>0.0359</b>		<b>705.9083</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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>



9010 Blue Wave - San Diego County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0460	1.2399	0.3201	2.7600e-003	0.0677	8.6300e-003	0.0763	0.0195	8.2500e-003	0.0277		296.0166	296.0166	0.0229		296.5880
Worker	0.1845	0.1288	1.4542	4.1100e-003	0.3861	2.7500e-003	0.3889	0.1024	2.5400e-003	0.1050		408.9938	408.9938	0.0131		409.3203
<b>Total</b>	<b>0.2306</b>	<b>1.3687</b>	<b>1.7743</b>	<b>6.8700e-003</b>	<b>0.4538</b>	<b>0.0114</b>	<b>0.4652</b>	<b>0.1219</b>	<b>0.0108</b>	<b>0.1327</b>		<b>705.0105</b>	<b>705.0105</b>	<b>0.0359</b>		<b>705.9083</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0374	1.1276	0.2873	2.7400e-003	0.0677	5.5200e-003	0.0732	0.0195	5.2800e-003	0.0248		294.0401	294.0401	0.0217		294.5824
Worker	0.1725	0.1162	1.3323	3.9800e-003	0.3861	2.7100e-003	0.3888	0.1024	2.5000e-003	0.1049		396.0911	396.0911	0.0118		396.3868
<b>Total</b>	<b>0.2098</b>	<b>1.2438</b>	<b>1.6195</b>	<b>6.7200e-003</b>	<b>0.4538</b>	<b>8.2300e-003</b>	<b>0.4620</b>	<b>0.1219</b>	<b>7.7800e-003</b>	<b>0.1297</b>		<b>690.1312</b>	<b>690.1312</b>	<b>0.0335</b>		<b>690.9692</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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0374	1.1276	0.2873	2.7400e-003	0.0677	5.5200e-003	0.0732	0.0195	5.2800e-003	0.0248		294.0401	294.0401	0.0217		294.5824
Worker	0.1725	0.1162	1.3323	3.9800e-003	0.3861	2.7100e-003	0.3888	0.1024	2.5000e-003	0.1049		396.0911	396.0911	0.0118		396.3868
<b>Total</b>	<b>0.2098</b>	<b>1.2438</b>	<b>1.6195</b>	<b>6.7200e-003</b>	<b>0.4538</b>	<b>8.2300e-003</b>	<b>0.4620</b>	<b>0.1219</b>	<b>7.7800e-003</b>	<b>0.1297</b>		<b>690.1312</b>	<b>690.1312</b>	<b>0.0335</b>		<b>690.9692</b>

**3.6 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>8.4989</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.6 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0247	0.2785	7.9000e-004	0.0739	5.3000e-004	0.0745	0.0196	4.9000e-004	0.0201		78.3180	78.3180	2.5000e-003		78.3805
<b>Total</b>	<b>0.0353</b>	<b>0.0247</b>	<b>0.2785</b>	<b>7.9000e-004</b>	<b>0.0739</b>	<b>5.3000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.9000e-004</b>	<b>0.0201</b>		<b>78.3180</b>	<b>78.3180</b>	<b>2.5000e-003</b>		<b>78.3805</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	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>8.4989</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

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**3.6 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0247	0.2785	7.9000e-004	0.0739	5.3000e-004	0.0745	0.0196	4.9000e-004	0.0201		78.3180	78.3180	2.5000e-003		78.3805
<b>Total</b>	<b>0.0353</b>	<b>0.0247</b>	<b>0.2785</b>	<b>7.9000e-004</b>	<b>0.0739</b>	<b>5.3000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.9000e-004</b>	<b>0.0201</b>		<b>78.3180</b>	<b>78.3180</b>	<b>2.5000e-003</b>		<b>78.3805</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.4746</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0330	0.0223	0.2551	7.6000e-004	0.0739	5.2000e-004	0.0745	0.0196	4.8000e-004	0.0201		75.8472	75.8472	2.2600e-003		75.9039
<b>Total</b>	<b>0.0330</b>	<b>0.0223</b>	<b>0.2551</b>	<b>7.6000e-004</b>	<b>0.0739</b>	<b>5.2000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.8000e-004</b>	<b>0.0201</b>		<b>75.8472</b>	<b>75.8472</b>	<b>2.2600e-003</b>		<b>75.9039</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	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.4746</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0330	0.0223	0.2551	7.6000e-004	0.0739	5.2000e-004	0.0745	0.0196	4.8000e-004	0.0201		75.8472	75.8472	2.2600e-003		75.9039
<b>Total</b>	<b>0.0330</b>	<b>0.0223</b>	<b>0.2551</b>	<b>7.6000e-004</b>	<b>0.0739</b>	<b>5.2000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.8000e-004</b>	<b>0.0201</b>		<b>75.8472</b>	<b>75.8472</b>	<b>2.2600e-003</b>		<b>75.9039</b>

**3.7 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8402</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>		<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**3.7 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0321	0.3685	1.1000e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		109.5571	109.5571	3.2700e-003		109.6389
<b>Total</b>	<b>0.0477</b>	<b>0.0321</b>	<b>0.3685</b>	<b>1.1000e-003</b>	<b>0.1068</b>	<b>7.5000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.9000e-004</b>	<b>0.0290</b>		<b>109.5571</b>	<b>109.5571</b>	<b>3.2700e-003</b>		<b>109.6389</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	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8402</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>	<b>0.0000</b>	<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>



9010 Blue Wave - San Diego County APCD Air District, Summer

**3.7 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0321	0.3685	1.1000e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		109.5571	109.5571	3.2700e-003		109.6389
<b>Total</b>	<b>0.0477</b>	<b>0.0321</b>	<b>0.3685</b>	<b>1.1000e-003</b>	<b>0.1068</b>	<b>7.5000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.9000e-004</b>	<b>0.0290</b>		<b>109.5571</b>	<b>109.5571</b>	<b>3.2700e-003</b>		<b>109.6389</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Increase Transit Accessibility

9010 Blue Wave - San Diego County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6965	5.4179	10.8650	0.0256	1.7524	0.0271	1.7794	0.4684	0.0253	0.4937		2,608.8536	2,608.8536	0.1881		2,613.5564
Unmitigated	1.9285	6.8214	16.1659	0.0462	3.5204	0.0461	3.5664	0.9410	0.0432	0.9841		4,687.0378	4,687.0378	0.2825		4,694.1002

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	306.00	306.00	306.00	553,913	275,727
High Turnover (Sit Down Restaurant)	538.00	538.00	538.00	469,018	233,468
Hotel	423.00	423.00	423.00	582,630	290,022
Strip Mall	48.40	48.40	48.40	54,526	27,142
<b>Total</b>	<b>1,315.40</b>	<b>1,315.40</b>	<b>1,315.40</b>	<b>1,660,087</b>	<b>826,358</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.60	5.60	5.60	41.60	18.80	39.60	86	11	3
High Turnover (Sit Down)	5.60	5.60	5.60	8.50	72.50	19.00	37	20	43
Hotel	5.60	5.60	5.60	19.40	61.60	19.00	58	38	4
Strip Mall	5.60	5.60	5.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

9010 Blue Wave - San Diego County APCD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
High Turnover (Sit Down Restaurant)	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Hotel	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Strip Mall	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
NaturalGas Unmitigated	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456

9010 Blue Wave - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1037.99	0.0112	0.0957	0.0407	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.1163	122.1163	2.3400e-003	2.2400e-003	122.8420
High Turnover (Sit Down Restaurant)	2572.7	0.0277	0.2522	0.2119	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.6709	302.6709	5.8000e-003	5.5500e-003	304.4695
Hotel	2902.19	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4339	341.4339	6.5400e-003	6.2600e-003	343.4629
Strip Mall	7.36205	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8661	0.8661	2.0000e-005	2.0000e-005	0.8713
<b>Total</b>		<b>0.0703</b>	<b>0.6331</b>	<b>0.4922</b>	<b>3.8300e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>		<b>767.0872</b>	<b>767.0872</b>	<b>0.0147</b>	<b>0.0141</b>	<b>771.6456</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**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 Mid Rise	1.03799	0.0112	0.0957	0.0407	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.1163	122.1163	2.3400e-003	2.2400e-003	122.8420
High Turnover (Sit Down Restaurant)	2.5727	0.0277	0.2522	0.2119	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.6709	302.6709	5.8000e-003	5.5500e-003	304.4695
Hotel	2.90219	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4339	341.4339	6.5400e-003	6.2600e-003	343.4629
Strip Mall	0.00736205	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8661	0.8661	2.0000e-005	2.0000e-005	0.8713
<b>Total</b>		<b>0.0703</b>	<b>0.6331</b>	<b>0.4922</b>	<b>3.8300e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>		<b>767.0872</b>	<b>767.0872</b>	<b>0.0147</b>	<b>0.0141</b>	<b>771.6456</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

9010 Blue Wave - San Diego County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Unmitigated	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1291	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232		7.5879	7.5879	7.4200e-003		7.7734
<b>Total</b>	<b>1.7432</b>	<b>0.0489</b>	<b>4.2271</b>	<b>2.2000e-004</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0232</b>	<b>0.0232</b>	<b>0.0000</b>	<b>7.5879</b>	<b>7.5879</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>7.7734</b>

9010 Blue Wave - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1291	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232		7.5879	7.5879	7.4200e-003		7.7734
<b>Total</b>	<b>1.7432</b>	<b>0.0489</b>	<b>4.2271</b>	<b>2.2000e-004</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0232</b>	<b>0.0232</b>	<b>0.0000</b>	<b>7.5879</b>	<b>7.5879</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>7.7734</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Use Reclaimed Water

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

## 9010 Blue Wave - San Diego County APCD Air District, Summer

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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9010 Blue Wave - San Diego County APCD Air District, Winter

**9010 Blue Wave**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	5.38	1000sqft	0.12	5,385.00	0
Hotel	47.00	Room	0.58	18,148.00	0
Apartments Mid Rise	51.00	Dwelling Unit	0.57	40,149.00	146
Strip Mall	1.21	1000sqft	0.03	1,205.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	457.25	<b>CH4 Intensity (lb/MW hr)</b>	0.018	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

9010 Blue Wave - San Diego County APCD Air District, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%  
(457.25, 0.018, 0.004)

Land Use - 1.3 acre site

Construction Phase - Grading phase extended to account for excavation for underground parking  
Arch coatings simultaneous with last half of building construction

Trips and VMT -

Demolition -

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - TIA

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen 20% decrease in indoor water use  
(2,658,284.25, 1,306,409.10, 953,790.55, 71,742.20)

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100

## 9010 Blue Wave - San Diego County APCD Air District, Winter

tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	100.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	5.10	51.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	17,500.00
tblLandUse	LandUseSquareFeet	5,380.00	5,385.00
tblLandUse	LandUseSquareFeet	68,244.00	18,148.00
tblLandUse	LandUseSquareFeet	51,000.00	40,149.00
tblLandUse	LandUseSquareFeet	1,210.00	1,205.00
tblLandUse	LotAcreage	1.57	0.58
tblLandUse	LotAcreage	1.34	0.57
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	CW_TL	9.50	5.60

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tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	HO_TL	7.50	5.60
tblVehicleTrips	HS_TL	7.30	5.60
tblVehicleTrips	HW_TL	10.80	5.60
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	ST_TR	158.37	100.00
tblVehicleTrips	ST_TR	8.19	9.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	5.86	6.00
tblVehicleTrips	SU_TR	131.84	100.00
tblVehicleTrips	SU_TR	5.95	9.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.65	6.00
tblVehicleTrips	WD_TR	127.15	100.00
tblVehicleTrips	WD_TR	8.17	9.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWater	IndoorWaterUseRate	3,322,855.31	2,658,284.25
tblWater	IndoorWaterUseRate	1,633,011.37	1,306,409.10
tblWater	IndoorWaterUseRate	1,192,238.19	953,790.55
tblWater	IndoorWaterUseRate	89,627.75	71,742.20
tblWoodstoves	NumberCatalytic	2.55	0.00
tblWoodstoves	NumberNoncatalytic	2.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

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9010 Blue Wave - San Diego County APCD Air District, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Energy	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
Mobile	1.8720	6.9271	16.8346	0.0437	3.5204	0.0467	3.5671	0.9410	0.0438	0.9847		4,434.7454	4,434.7454	0.2911		4,442.0234
<b>Total</b>	<b>3.6856</b>	<b>7.6091</b>	<b>21.5539</b>	<b>0.0477</b>	<b>3.5204</b>	<b>0.1185</b>	<b>3.6389</b>	<b>0.9410</b>	<b>0.1156</b>	<b>1.0566</b>	<b>0.0000</b>	<b>5,209.4205</b>	<b>5,209.4205</b>	<b>0.3132</b>	<b>0.0141</b>	<b>5,221.4423</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	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Energy	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
Mobile	1.6444	5.4380	11.9849	0.0242	1.7524	0.0277	1.7801	0.4684	0.0259	0.4943		2,460.2509	2,460.2509	0.1996		2,465.2418
<b>Total</b>	<b>3.4579</b>	<b>6.1200</b>	<b>16.7042</b>	<b>0.0283</b>	<b>1.7524</b>	<b>0.0995</b>	<b>1.8519</b>	<b>0.4684</b>	<b>0.0977</b>	<b>0.5661</b>	<b>0.0000</b>	<b>3,234.9259</b>	<b>3,234.9259</b>	<b>0.2218</b>	<b>0.0141</b>	<b>3,244.6608</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.18	19.57	22.50	40.78	50.22	16.04	49.11	50.22	15.45	46.42	0.00	37.90	37.90	29.20	0.00	37.86

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading/Excavation	Grading	2/5/2019	4/29/2019	5	60	
4	Building Construction	Building Construction	4/30/2019	2/3/2020	5	200	
5	Architectural Coating	Architectural Coating	9/17/2019	2/3/2020	5	100	
6	Paving	Paving	2/4/2020	2/17/2020	5	10	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 81,302; Residential Outdoor: 27,101; Non-Residential Indoor: 37,107; Non-Residential Outdoor: 12,369; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 9010 Blue Wave - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading/Excavation	Graders	1	6.00	187	0.41
Grading/Excavation	Rubber Tired Dozers	1	6.00	247	0.40
Grading/Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT



9010 Blue Wave - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Excavation	3	8.00	0.00	2,188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	47.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1246	0.0000	0.1246	0.0189	0.0000	0.0189			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.1246</b>	<b>1.2863</b>	<b>1.4109</b>	<b>0.0189</b>	<b>1.2017</b>	<b>1.2206</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

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**3.2 Demolition - 2019**

**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	4.9100e-003	0.1669	0.0382	4.3000e-004	9.6100e-003	6.4000e-004	0.0103	2.6300e-003	6.1000e-004	3.2400e-003		46.8000	46.8000	4.3600e-003		46.9091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0577	0.0400	0.3801	1.0700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		106.1988	106.1988	3.4300e-003		106.2845
<b>Total</b>	<b>0.0626</b>	<b>0.2069</b>	<b>0.4183</b>	<b>1.5000e-003</b>	<b>0.1164</b>	<b>1.4000e-003</b>	<b>0.1178</b>	<b>0.0310</b>	<b>1.3100e-003</b>	<b>0.0323</b>		<b>152.9988</b>	<b>152.9988</b>	<b>7.7900e-003</b>		<b>153.1936</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					0.1246	0.0000	0.1246	0.0189	0.0000	0.0189			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.1246</b>	<b>1.2863</b>	<b>1.4109</b>	<b>0.0189</b>	<b>1.2017</b>	<b>1.2206</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

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**3.2 Demolition - 2019**

**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	4.9100e-003	0.1669	0.0382	4.3000e-004	9.6100e-003	6.4000e-004	0.0103	2.6300e-003	6.1000e-004	3.2400e-003		46.8000	46.8000	4.3600e-003		46.9091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0577	0.0400	0.3801	1.0700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		106.1988	106.1988	3.4300e-003		106.2845
<b>Total</b>	<b>0.0626</b>	<b>0.2069</b>	<b>0.4183</b>	<b>1.5000e-003</b>	<b>0.1164</b>	<b>1.4000e-003</b>	<b>0.1178</b>	<b>0.0310</b>	<b>1.3100e-003</b>	<b>0.0323</b>		<b>152.9988</b>	<b>152.9988</b>	<b>7.7900e-003</b>		<b>153.1936</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
<b>Total</b>	<b>0.0355</b>	<b>0.0246</b>	<b>0.2339</b>	<b>6.6000e-004</b>	<b>0.0657</b>	<b>4.7000e-004</b>	<b>0.0662</b>	<b>0.0174</b>	<b>4.3000e-004</b>	<b>0.0179</b>		<b>65.3531</b>	<b>65.3531</b>	<b>2.1100e-003</b>		<b>65.4058</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8824</b>	<b>6.6819</b>	<b>2.9537</b>	<b>0.8118</b>	<b>3.7655</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
<b>Total</b>	<b>0.0355</b>	<b>0.0246</b>	<b>0.2339</b>	<b>6.6000e-004</b>	<b>0.0657</b>	<b>4.7000e-004</b>	<b>0.0662</b>	<b>0.0174</b>	<b>4.3000e-004</b>	<b>0.0179</b>		<b>65.3531</b>	<b>65.3531</b>	<b>2.1100e-003</b>		<b>65.4058</b>

**3.4 Grading/Excavation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9552	0.0000	4.9552	2.5318	0.0000	2.5318			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.9552</b>	<b>0.7365</b>	<b>5.6917</b>	<b>2.5318</b>	<b>0.6775</b>	<b>3.2094</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

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**3.4 Grading/Excavation - 2019**

**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	0.3255	11.0659	2.5339	0.0285	0.6372	0.0423	0.6795	0.1746	0.0405	0.2151		3,102.9809	3,102.9809	0.2894		3,110.2162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
<b>Total</b>	<b>0.3610</b>	<b>11.0905</b>	<b>2.7678</b>	<b>0.0291</b>	<b>0.7029</b>	<b>0.0428</b>	<b>0.7457</b>	<b>0.1921</b>	<b>0.0409</b>	<b>0.2330</b>		<b>3,168.3340</b>	<b>3,168.3340</b>	<b>0.2915</b>		<b>3,175.6220</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					4.9552	0.0000	4.9552	2.5318	0.0000	2.5318			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>4.9552</b>	<b>0.7365</b>	<b>5.6917</b>	<b>2.5318</b>	<b>0.6775</b>	<b>3.2094</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

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**3.4 Grading/Excavation - 2019**

**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	0.3255	11.0659	2.5339	0.0285	0.6372	0.0423	0.6795	0.1746	0.0405	0.2151		3,102.9809	3,102.9809	0.2894		3,110.2162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
<b>Total</b>	<b>0.3610</b>	<b>11.0905</b>	<b>2.7678</b>	<b>0.0291</b>	<b>0.7029</b>	<b>0.0428</b>	<b>0.7457</b>	<b>0.1921</b>	<b>0.0409</b>	<b>0.2330</b>		<b>3,168.3340</b>	<b>3,168.3340</b>	<b>0.2915</b>		<b>3,175.6220</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0480	1.2409	0.3549	2.6900e-003	0.0677	8.7800e-003	0.0765	0.0195	8.4000e-003	0.0279		288.5003	288.5003	0.0243		289.1081
Worker	0.2087	0.1446	1.3743	3.8500e-003	0.3861	2.7500e-003	0.3889	0.1024	2.5400e-003	0.1050		383.9495	383.9495	0.0124		384.2592
<b>Total</b>	<b>0.2567</b>	<b>1.3855</b>	<b>1.7292</b>	<b>6.5400e-003</b>	<b>0.4538</b>	<b>0.0115</b>	<b>0.4653</b>	<b>0.1219</b>	<b>0.0109</b>	<b>0.1328</b>		<b>672.4497</b>	<b>672.4497</b>	<b>0.0367</b>		<b>673.3672</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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>



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**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0480	1.2409	0.3549	2.6900e-003	0.0677	8.7800e-003	0.0765	0.0195	8.4000e-003	0.0279		288.5003	288.5003	0.0243		289.1081
Worker	0.2087	0.1446	1.3743	3.8500e-003	0.3861	2.7500e-003	0.3889	0.1024	2.5400e-003	0.1050		383.9495	383.9495	0.0124		384.2592
<b>Total</b>	<b>0.2567</b>	<b>1.3855</b>	<b>1.7292</b>	<b>6.5400e-003</b>	<b>0.4538</b>	<b>0.0115</b>	<b>0.4653</b>	<b>0.1219</b>	<b>0.0109</b>	<b>0.1328</b>		<b>672.4497</b>	<b>672.4497</b>	<b>0.0367</b>		<b>673.3672</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0391	1.1267	0.3188	2.6700e-003	0.0677	5.6200e-003	0.0733	0.0195	5.3800e-003	0.0249		286.4622	286.4622	0.0231		287.0385
Worker	0.1953	0.1305	1.2561	3.7300e-003	0.3861	2.7100e-003	0.3888	0.1024	2.5000e-003	0.1049		371.8320	371.8320	0.0112		372.1119
<b>Total</b>	<b>0.2345</b>	<b>1.2571</b>	<b>1.5749</b>	<b>6.4000e-003</b>	<b>0.4538</b>	<b>8.3300e-003</b>	<b>0.4621</b>	<b>0.1219</b>	<b>7.8800e-003</b>	<b>0.1298</b>		<b>658.2942</b>	<b>658.2942</b>	<b>0.0342</b>		<b>659.1504</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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

9010 Blue Wave - San Diego County APCD Air District, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0391	1.1267	0.3188	2.6700e-003	0.0677	5.6200e-003	0.0733	0.0195	5.3800e-003	0.0249		286.4622	286.4622	0.0231		287.0385
Worker	0.1953	0.1305	1.2561	3.7300e-003	0.3861	2.7100e-003	0.3888	0.1024	2.5000e-003	0.1049		371.8320	371.8320	0.0112		372.1119
<b>Total</b>	<b>0.2345</b>	<b>1.2571</b>	<b>1.5749</b>	<b>6.4000e-003</b>	<b>0.4538</b>	<b>8.3300e-003</b>	<b>0.4621</b>	<b>0.1219</b>	<b>7.8800e-003</b>	<b>0.1298</b>		<b>658.2942</b>	<b>658.2942</b>	<b>0.0342</b>		<b>659.1504</b>

**3.6 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>8.4989</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

9010 Blue Wave - San Diego County APCD Air District, Winter

**3.6 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0277	0.2632	7.4000e-004	0.0739	5.3000e-004	0.0745	0.0196	4.9000e-004	0.0201		73.5222	73.5222	2.3700e-003		73.5816
<b>Total</b>	<b>0.0400</b>	<b>0.0277</b>	<b>0.2632</b>	<b>7.4000e-004</b>	<b>0.0739</b>	<b>5.3000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.9000e-004</b>	<b>0.0201</b>		<b>73.5222</b>	<b>73.5222</b>	<b>2.3700e-003</b>		<b>73.5816</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	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>8.4989</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

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**3.6 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0277	0.2632	7.4000e-004	0.0739	5.3000e-004	0.0745	0.0196	4.9000e-004	0.0201		73.5222	73.5222	2.3700e-003		73.5816
<b>Total</b>	<b>0.0400</b>	<b>0.0277</b>	<b>0.2632</b>	<b>7.4000e-004</b>	<b>0.0739</b>	<b>5.3000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.9000e-004</b>	<b>0.0201</b>		<b>73.5222</b>	<b>73.5222</b>	<b>2.3700e-003</b>		<b>73.5816</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.4746</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0250	0.2405	7.1000e-004	0.0739	5.2000e-004	0.0745	0.0196	4.8000e-004	0.0201		71.2019	71.2019	2.1400e-003		71.2555
<b>Total</b>	<b>0.0374</b>	<b>0.0250</b>	<b>0.2405</b>	<b>7.1000e-004</b>	<b>0.0739</b>	<b>5.2000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.8000e-004</b>	<b>0.0201</b>		<b>71.2019</b>	<b>71.2019</b>	<b>2.1400e-003</b>		<b>71.2555</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	8.2324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.4746</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0250	0.2405	7.1000e-004	0.0739	5.2000e-004	0.0745	0.0196	4.8000e-004	0.0201		71.2019	71.2019	2.1400e-003		71.2555
<b>Total</b>	<b>0.0374</b>	<b>0.0250</b>	<b>0.2405</b>	<b>7.1000e-004</b>	<b>0.0739</b>	<b>5.2000e-004</b>	<b>0.0745</b>	<b>0.0196</b>	<b>4.8000e-004</b>	<b>0.0201</b>		<b>71.2019</b>	<b>71.2019</b>	<b>2.1400e-003</b>		<b>71.2555</b>

**3.7 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8402</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>		<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

9010 Blue Wave - San Diego County APCD Air District, Winter

**3.7 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0540	0.0361	0.3474	1.0300e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		102.8472	102.8472	3.1000e-003		102.9246
<b>Total</b>	<b>0.0540</b>	<b>0.0361</b>	<b>0.3474</b>	<b>1.0300e-003</b>	<b>0.1068</b>	<b>7.5000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.9000e-004</b>	<b>0.0290</b>		<b>102.8472</b>	<b>102.8472</b>	<b>3.1000e-003</b>		<b>102.9246</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	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8402</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>	<b>0.0000</b>	<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>



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**3.7 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0540	0.0361	0.3474	1.0300e-003	0.1068	7.5000e-004	0.1075	0.0283	6.9000e-004	0.0290		102.8472	102.8472	3.1000e-003		102.9246
<b>Total</b>	<b>0.0540</b>	<b>0.0361</b>	<b>0.3474</b>	<b>1.0300e-003</b>	<b>0.1068</b>	<b>7.5000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.9000e-004</b>	<b>0.0290</b>		<b>102.8472</b>	<b>102.8472</b>	<b>3.1000e-003</b>		<b>102.9246</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Increase Transit Accessibility

9010 Blue Wave - San Diego County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6444	5.4380	11.9849	0.0242	1.7524	0.0277	1.7801	0.4684	0.0259	0.4943		2,460.2509	2,460.2509	0.1996		2,465.2418
Unmitigated	1.8720	6.9271	16.8346	0.0437	3.5204	0.0467	3.5671	0.9410	0.0438	0.9847		4,434.7454	4,434.7454	0.2911		4,442.0234

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	306.00	306.00	306.00	553,913	275,727
High Turnover (Sit Down Restaurant)	538.00	538.00	538.00	469,018	233,468
Hotel	423.00	423.00	423.00	582,630	290,022
Strip Mall	48.40	48.40	48.40	54,526	27,142
<b>Total</b>	<b>1,315.40</b>	<b>1,315.40</b>	<b>1,315.40</b>	<b>1,660,087</b>	<b>826,358</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.60	5.60	5.60	41.60	18.80	39.60	86	11	3
High Turnover (Sit Down)	5.60	5.60	5.60	8.50	72.50	19.00	37	20	43
Hotel	5.60	5.60	5.60	19.40	61.60	19.00	58	38	4
Strip Mall	5.60	5.60	5.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
High Turnover (Sit Down Restaurant)	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Hotel	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Strip Mall	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456
NaturalGas Unmitigated	0.0703	0.6331	0.4922	3.8400e-003		0.0486	0.0486		0.0486	0.0486		767.0872	767.0872	0.0147	0.0141	771.6456

9010 Blue Wave - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1037.99	0.0112	0.0957	0.0407	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.1163	122.1163	2.3400e-003	2.2400e-003	122.8420
High Turnover (Sit Down Restaurant)	2572.7	0.0277	0.2522	0.2119	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.6709	302.6709	5.8000e-003	5.5500e-003	304.4695
Hotel	2902.19	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4339	341.4339	6.5400e-003	6.2600e-003	343.4629
Strip Mall	7.36205	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8661	0.8661	2.0000e-005	2.0000e-005	0.8713
<b>Total</b>		<b>0.0703</b>	<b>0.6331</b>	<b>0.4922</b>	<b>3.8300e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>		<b>767.0872</b>	<b>767.0872</b>	<b>0.0147</b>	<b>0.0141</b>	<b>771.6456</b>

9010 Blue Wave - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**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 Mid Rise	1.03799	0.0112	0.0957	0.0407	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.1163	122.1163	2.3400e-003	2.2400e-003	122.8420
High Turnover (Sit Down Restaurant)	2.5727	0.0277	0.2522	0.2119	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.6709	302.6709	5.8000e-003	5.5500e-003	304.4695
Hotel	2.90219	0.0313	0.2845	0.2390	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.4339	341.4339	6.5400e-003	6.2600e-003	343.4629
Strip Mall	0.00736205	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.8661	0.8661	2.0000e-005	2.0000e-005	0.8713
<b>Total</b>		<b>0.0703</b>	<b>0.6331</b>	<b>0.4922</b>	<b>3.8300e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0486</b>	<b>0.0486</b>		<b>767.0872</b>	<b>767.0872</b>	<b>0.0147</b>	<b>0.0141</b>	<b>771.6456</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

9010 Blue Wave - San Diego County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734
Unmitigated	1.7432	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232	0.0000	7.5879	7.5879	7.4200e-003	0.0000	7.7734

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1291	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232		7.5879	7.5879	7.4200e-003		7.7734
<b>Total</b>	<b>1.7432</b>	<b>0.0489</b>	<b>4.2271</b>	<b>2.2000e-004</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0232</b>	<b>0.0232</b>	<b>0.0000</b>	<b>7.5879</b>	<b>7.5879</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>7.7734</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1291	0.0489	4.2271	2.2000e-004		0.0232	0.0232		0.0232	0.0232		7.5879	7.5879	7.4200e-003		7.7734
<b>Total</b>	<b>1.7432</b>	<b>0.0489</b>	<b>4.2271</b>	<b>2.2000e-004</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0232</b>	<b>0.0232</b>	<b>0.0000</b>	<b>7.5879</b>	<b>7.5879</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>7.7734</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Use Reclaimed Water

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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## 9010 Blue Wave - San Diego County APCD Air District, Winter

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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**9010 Blue Wave**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	5.38	1000sqft	0.12	5,385.00	0
Hotel	47.00	Room	0.58	18,148.00	0
Apartments Mid Rise	51.00	Dwelling Unit	0.57	40,149.00	146
Strip Mall	1.21	1000sqft	0.03	1,205.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	457.25	<b>CH4 Intensity (lb/MW hr)</b>	0.018	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%  
(457.25, 0.018, 0.004)

Land Use - 1.3 acre site

Construction Phase - Grading phase extended to account for excavation for underground parking  
Arch coatings simultaneous with last half of building construction

Trips and VMT -

Demolition -

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - TIA

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen 20% decrease in indoor water use  
(2,658,284.25, 1,306,409.10, 953,790.55, 71,742.20)

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100

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tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	4.00	60.00
tblConstructionPhase	NumDays	10.00	100.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	5.10	51.00
tblFireplaces	NumberWood	17.85	0.00
tblGrading	MaterialExported	0.00	17,500.00
tblLandUse	LandUseSquareFeet	5,380.00	5,385.00
tblLandUse	LandUseSquareFeet	68,244.00	18,148.00
tblLandUse	LandUseSquareFeet	51,000.00	40,149.00
tblLandUse	LandUseSquareFeet	1,210.00	1,205.00
tblLandUse	LotAcreage	1.57	0.58
tblLandUse	LotAcreage	1.34	0.57
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CC_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CNW_TL	7.30	5.60
tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	CW_TL	9.50	5.60

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tblVehicleTrips	CW_TL	9.50	5.60
tblVehicleTrips	HO_TL	7.50	5.60
tblVehicleTrips	HS_TL	7.30	5.60
tblVehicleTrips	HW_TL	10.80	5.60
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	ST_TR	158.37	100.00
tblVehicleTrips	ST_TR	8.19	9.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	5.86	6.00
tblVehicleTrips	SU_TR	131.84	100.00
tblVehicleTrips	SU_TR	5.95	9.00
tblVehicleTrips	SU_TR	20.43	40.00
tblVehicleTrips	WD_TR	6.65	6.00
tblVehicleTrips	WD_TR	127.15	100.00
tblVehicleTrips	WD_TR	8.17	9.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWater	IndoorWaterUseRate	3,322,855.31	2,658,284.25
tblWater	IndoorWaterUseRate	1,633,011.37	1,306,409.10
tblWater	IndoorWaterUseRate	1,192,238.19	953,790.55
tblWater	IndoorWaterUseRate	89,627.75	71,742.20
tblWoodstoves	NumberCatalytic	2.55	0.00
tblWoodstoves	NumberNoncatalytic	2.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	0.8733	0.8733
2	4-1-2019	6-30-2019	0.7376	0.7376
3	7-1-2019	9-30-2019	0.7042	0.7042
4	10-1-2019	12-31-2019	0.9955	0.9955
5	1-1-2020	3-31-2020	0.3934	0.3934
		Highest	0.9955	0.9955

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3062	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347
Energy	0.0128	0.1156	0.0898	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	264.4685	264.4685	7.8500e-003	3.5300e-003	265.7168
Mobile	0.3297	1.2680	2.9849	8.0400e-003	0.6257	8.4200e-003	0.6341	0.1676	7.9000e-003	0.1755	0.0000	740.9384	740.9384	0.0471	0.0000	742.1156
Waste						0.0000	0.0000		0.0000	0.0000	23.2384	0.0000	23.2384	1.3734	0.0000	57.5722
Water						0.0000	0.0000		0.0000	0.0000	1.5832	18.9758	20.5590	0.1634	4.0100e-003	25.8365
<b>Total</b>	<b>0.6487</b>	<b>1.3880</b>	<b>3.4552</b>	<b>8.7600e-003</b>	<b>0.6257</b>	<b>0.0194</b>	<b>0.6451</b>	<b>0.1676</b>	<b>0.0189</b>	<b>0.1864</b>	<b>24.8216</b>	<b>1,025.0022</b>	<b>1,049.8238</b>	<b>1.5923</b>	<b>7.5400e-003</b>	<b>1,091.8757</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3062	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347
Energy	0.0128	0.1156	0.0898	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	247.2087	247.2087	7.1700e-003	3.3800e-003	248.3950
Mobile	0.2882	0.9979	2.0946	4.4700e-003	0.3115	4.9700e-003	0.3164	0.0834	4.6500e-003	0.0881	0.0000	412.7028	412.7028	0.0319	0.0000	413.5011
Waste						0.0000	0.0000		0.0000	0.0000	17.4288	0.0000	17.4288	1.0300	0.0000	43.1791
Water						0.0000	0.0000		0.0000	0.0000	1.5832	17.8760	19.4592	0.1633	4.0000e-003	24.7327
<b>Total</b>	<b>0.6072</b>	<b>1.1179</b>	<b>2.5649</b>	<b>5.1900e-003</b>	<b>0.3115</b>	<b>0.0159</b>	<b>0.3274</b>	<b>0.0834</b>	<b>0.0156</b>	<b>0.0990</b>	<b>19.0120</b>	<b>678.4069</b>	<b>697.4189</b>	<b>1.2330</b>	<b>7.3800e-003</b>	<b>730.4426</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>6.39</b>	<b>19.46</b>	<b>25.77</b>	<b>40.75</b>	<b>50.22</b>	<b>17.80</b>	<b>49.25</b>	<b>50.22</b>	<b>17.23</b>	<b>46.88</b>	<b>23.41</b>	<b>33.81</b>	<b>33.57</b>	<b>22.56</b>	<b>2.12</b>	<b>33.10</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading/Excavation	Grading	2/5/2019	4/29/2019	5	60	
4	Building Construction	Building Construction	4/30/2019	2/3/2020	5	200	
5	Architectural Coating	Architectural Coating	9/17/2019	2/3/2020	5	100	
6	Paving	Paving	2/4/2020	2/17/2020	5	10	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 81,302; Residential Outdoor: 27,101; Non-Residential Indoor: 37,107; Non-Residential Outdoor: 12,369; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**



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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading/Excavation	Graders	1	6.00	187	0.41
Grading/Excavation	Rubber Tired Dozers	1	6.00	247	0.40
Grading/Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Excavation	3	8.00	0.00	2,188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	47.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2500e-003	0.0000	1.2500e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
<b>Total</b>	<b>0.0230</b>	<b>0.2268</b>	<b>0.1489</b>	<b>2.4000e-004</b>	<b>1.2500e-003</b>	<b>0.0129</b>	<b>0.0141</b>	<b>1.9000e-004</b>	<b>0.0120</b>	<b>0.0122</b>	<b>0.0000</b>	<b>21.4161</b>	<b>21.4161</b>	<b>5.4500e-003</b>	<b>0.0000</b>	<b>21.5524</b>

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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.6900e-003	3.7000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4288	0.4288	4.0000e-005	0.0000	0.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.9000e-004	3.8000e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9731	0.9731	3.0000e-005	0.0000	0.9738
<b>Total</b>	<b>5.6000e-004</b>	<b>2.0800e-003</b>	<b>4.1700e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>2.0000e-005</b>	<b>1.1500e-003</b>	<b>3.1000e-004</b>	<b>2.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.4018</b>	<b>1.4018</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.4036</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2500e-003	0.0000	1.2500e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
<b>Total</b>	<b>0.0230</b>	<b>0.2268</b>	<b>0.1489</b>	<b>2.4000e-004</b>	<b>1.2500e-003</b>	<b>0.0129</b>	<b>0.0141</b>	<b>1.9000e-004</b>	<b>0.0120</b>	<b>0.0122</b>	<b>0.0000</b>	<b>21.4161</b>	<b>21.4161</b>	<b>5.4500e-003</b>	<b>0.0000</b>	<b>21.5524</b>

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**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.6900e-003	3.7000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4288	0.4288	4.0000e-005	0.0000	0.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.9000e-004	3.8000e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9731	0.9731	3.0000e-005	0.0000	0.9738
<b>Total</b>	<b>5.6000e-004</b>	<b>2.0800e-003</b>	<b>4.1700e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>2.0000e-005</b>	<b>1.1500e-003</b>	<b>3.1000e-004</b>	<b>2.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.4018</b>	<b>1.4018</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.4036</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0145	0.0000	0.0145	7.3800e-003	0.0000	7.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0487	0.0197	4.0000e-005		2.2100e-003	2.2100e-003		2.0300e-003	2.0300e-003	0.0000	3.8667	3.8667	1.2200e-003	0.0000	3.8973
<b>Total</b>	<b>4.2800e-003</b>	<b>0.0487</b>	<b>0.0197</b>	<b>4.0000e-005</b>	<b>0.0145</b>	<b>2.2100e-003</b>	<b>0.0167</b>	<b>7.3800e-003</b>	<b>2.0300e-003</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>3.8667</b>	<b>3.8667</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.8973</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1497	0.1497	0.0000	0.0000	0.1498
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1497</b>	<b>0.1497</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1498</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0145	0.0000	0.0145	7.3800e-003	0.0000	7.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0487	0.0197	4.0000e-005		2.2100e-003	2.2100e-003		2.0300e-003	2.0300e-003	0.0000	3.8667	3.8667	1.2200e-003	0.0000	3.8973
<b>Total</b>	<b>4.2800e-003</b>	<b>0.0487</b>	<b>0.0197</b>	<b>4.0000e-005</b>	<b>0.0145</b>	<b>2.2100e-003</b>	<b>0.0167</b>	<b>7.3800e-003</b>	<b>2.0300e-003</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>3.8667</b>	<b>3.8667</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.8973</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1497	0.1497	0.0000	0.0000	0.1498
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1497</b>	<b>0.1497</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1498</b>

**3.4 Grading/Excavation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1487	0.0000	0.1487	0.0760	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0426	0.4811	0.1982	4.2000e-004		0.0221	0.0221		0.0203	0.0203	0.0000	38.0035	38.0035	0.0120	0.0000	38.3041
<b>Total</b>	<b>0.0426</b>	<b>0.4811</b>	<b>0.1982</b>	<b>4.2000e-004</b>	<b>0.1487</b>	<b>0.0221</b>	<b>0.1708</b>	<b>0.0760</b>	<b>0.0203</b>	<b>0.0963</b>	<b>0.0000</b>	<b>38.0035</b>	<b>38.0035</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.3041</b>

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**3.4 Grading/Excavation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.6100e-003	0.3353	0.0731	8.6000e-004	0.0187	1.2500e-003	0.0200	5.1400e-003	1.2000e-003	6.3400e-003	0.0000	85.2876	85.2876	7.7200e-003	0.0000	85.4807
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.3000e-004	7.0200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7964	1.7964	6.0000e-005	0.0000	1.7978
<b>Total</b>	<b>0.0106</b>	<b>0.3360</b>	<b>0.0802</b>	<b>8.8000e-004</b>	<b>0.0206</b>	<b>1.2600e-003</b>	<b>0.0219</b>	<b>5.6500e-003</b>	<b>1.2100e-003</b>	<b>6.8600e-003</b>	<b>0.0000</b>	<b>87.0840</b>	<b>87.0840</b>	<b>7.7800e-003</b>	<b>0.0000</b>	<b>87.2785</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1487	0.0000	0.1487	0.0760	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0426	0.4811	0.1982	4.2000e-004		0.0221	0.0221		0.0203	0.0203	0.0000	38.0035	38.0035	0.0120	0.0000	38.3041
<b>Total</b>	<b>0.0426</b>	<b>0.4811</b>	<b>0.1982</b>	<b>4.2000e-004</b>	<b>0.1487</b>	<b>0.0221</b>	<b>0.1708</b>	<b>0.0760</b>	<b>0.0203</b>	<b>0.0963</b>	<b>0.0000</b>	<b>38.0035</b>	<b>38.0035</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.3041</b>

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**3.4 Grading/Excavation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.6100e-003	0.3353	0.0731	8.6000e-004	0.0187	1.2500e-003	0.0200	5.1400e-003	1.2000e-003	6.3400e-003	0.0000	85.2876	85.2876	7.7200e-003	0.0000	85.4807
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.3000e-004	7.0200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7964	1.7964	6.0000e-005	0.0000	1.7978
<b>Total</b>	<b>0.0106</b>	<b>0.3360</b>	<b>0.0802</b>	<b>8.8000e-004</b>	<b>0.0206</b>	<b>1.2600e-003</b>	<b>0.0219</b>	<b>5.6500e-003</b>	<b>1.2100e-003</b>	<b>6.8600e-003</b>	<b>0.0000</b>	<b>87.0840</b>	<b>87.0840</b>	<b>7.7800e-003</b>	<b>0.0000</b>	<b>87.2785</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1999	1.4063	1.1869	1.9400e-003		0.0806	0.0806		0.0778	0.0778	0.0000	161.1033	161.1033	0.0310	0.0000	161.8775
<b>Total</b>	<b>0.1999</b>	<b>1.4063</b>	<b>1.1869</b>	<b>1.9400e-003</b>		<b>0.0806</b>	<b>0.0806</b>		<b>0.0778</b>	<b>0.0778</b>	<b>0.0000</b>	<b>161.1033</b>	<b>161.1033</b>	<b>0.0310</b>	<b>0.0000</b>	<b>161.8775</b>



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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1105	0.0297	2.4000e-004	5.8400e-003	7.6000e-004	6.6100e-003	1.6900e-003	7.3000e-004	2.4200e-003	0.0000	23.3797	23.3797	1.8800e-003	0.0000	23.4266
Worker	0.0163	0.0125	0.1210	3.4000e-004	0.0332	2.4000e-004	0.0334	8.8100e-003	2.2000e-004	9.0400e-003	0.0000	30.9578	30.9578	1.0000e-003	0.0000	30.9827
<b>Total</b>	<b>0.0204</b>	<b>0.1230</b>	<b>0.1507</b>	<b>5.8000e-004</b>	<b>0.0390</b>	<b>1.0000e-003</b>	<b>0.0400</b>	<b>0.0105</b>	<b>9.5000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>54.3375</b>	<b>54.3375</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>54.4093</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1999	1.4063	1.1869	1.9400e-003		0.0806	0.0806		0.0778	0.0778	0.0000	161.1031	161.1031	0.0310	0.0000	161.8774
<b>Total</b>	<b>0.1999</b>	<b>1.4063</b>	<b>1.1869</b>	<b>1.9400e-003</b>		<b>0.0806</b>	<b>0.0806</b>		<b>0.0778</b>	<b>0.0778</b>	<b>0.0000</b>	<b>161.1031</b>	<b>161.1031</b>	<b>0.0310</b>	<b>0.0000</b>	<b>161.8774</b>

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**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1105	0.0297	2.4000e-004	5.8400e-003	7.6000e-004	6.6100e-003	1.6900e-003	7.3000e-004	2.4200e-003	0.0000	23.3797	23.3797	1.8800e-003	0.0000	23.4266
Worker	0.0163	0.0125	0.1210	3.4000e-004	0.0332	2.4000e-004	0.0334	8.8100e-003	2.2000e-004	9.0400e-003	0.0000	30.9578	30.9578	1.0000e-003	0.0000	30.9827
<b>Total</b>	<b>0.0204</b>	<b>0.1230</b>	<b>0.1507</b>	<b>5.8000e-004</b>	<b>0.0390</b>	<b>1.0000e-003</b>	<b>0.0400</b>	<b>0.0105</b>	<b>9.5000e-004</b>	<b>0.0115</b>	<b>0.0000</b>	<b>54.3375</b>	<b>54.3375</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>54.4093</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.1775	0.1583	2.6000e-004		9.5500e-003	9.5500e-003		9.2300e-003	9.2300e-003	0.0000	21.7851	21.7851	4.0400e-003	0.0000	21.8862
<b>Total</b>	<b>0.0244</b>	<b>0.1775</b>	<b>0.1583</b>	<b>2.6000e-004</b>		<b>9.5500e-003</b>	<b>9.5500e-003</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>21.7851</b>	<b>21.7851</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>21.8862</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0137	3.6300e-003	3.0000e-005	8.0000e-004	7.0000e-005	8.6000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	3.1663	3.1663	2.4000e-004	0.0000	3.1724
Worker	2.0800e-003	1.5400e-003	0.0151	5.0000e-005	4.5200e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	4.0883	4.0883	1.2000e-004	0.0000	4.0914
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0152</b>	<b>0.0187</b>	<b>8.0000e-005</b>	<b>5.3200e-003</b>	<b>1.0000e-004</b>	<b>5.4200e-003</b>	<b>1.4300e-003</b>	<b>9.0000e-005</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>7.2546</b>	<b>7.2546</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.2638</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.1775	0.1583	2.6000e-004		9.5500e-003	9.5500e-003		9.2300e-003	9.2300e-003	0.0000	21.7850	21.7850	4.0400e-003	0.0000	21.8861
<b>Total</b>	<b>0.0244</b>	<b>0.1775</b>	<b>0.1583</b>	<b>2.6000e-004</b>		<b>9.5500e-003</b>	<b>9.5500e-003</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>21.7850</b>	<b>21.7850</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>21.8861</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0137	3.6300e-003	3.0000e-005	8.0000e-004	7.0000e-005	8.6000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	3.1663	3.1663	2.4000e-004	0.0000	3.1724
Worker	2.0800e-003	1.5400e-003	0.0151	5.0000e-005	4.5200e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	4.0883	4.0883	1.2000e-004	0.0000	4.0914
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0152</b>	<b>0.0187</b>	<b>8.0000e-005</b>	<b>5.3200e-003</b>	<b>1.0000e-004</b>	<b>5.4200e-003</b>	<b>1.4300e-003</b>	<b>9.0000e-005</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>7.2546</b>	<b>7.2546</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.2638</b>

**3.6 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0697	0.0700	1.1000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	9.7024	9.7024	8.2000e-004	0.0000	9.7229
<b>Total</b>	<b>0.3230</b>	<b>0.0697</b>	<b>0.0700</b>	<b>1.1000e-004</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>9.7024</b>	<b>9.7024</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>9.7229</b>

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**3.6 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	1.0300e-003	0.0100	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.5599	2.5599	8.0000e-005	0.0000	2.5619
<b>Total</b>	<b>1.3500e-003</b>	<b>1.0300e-003</b>	<b>0.0100</b>	<b>3.0000e-005</b>	<b>2.7400e-003</b>	<b>2.0000e-005</b>	<b>2.7600e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.5599</b>	<b>2.5599</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.5619</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0697	0.0700	1.1000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	9.7024	9.7024	8.2000e-004	0.0000	9.7228
<b>Total</b>	<b>0.3230</b>	<b>0.0697</b>	<b>0.0700</b>	<b>1.1000e-004</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>9.7024</b>	<b>9.7024</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>9.7228</b>

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**3.6 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	1.0300e-003	0.0100	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.5599	2.5599	8.0000e-005	0.0000	2.5619
<b>Total</b>	<b>1.3500e-003</b>	<b>1.0300e-003</b>	<b>0.0100</b>	<b>3.0000e-005</b>	<b>2.7400e-003</b>	<b>2.0000e-005</b>	<b>2.7600e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.5599</b>	<b>2.5599</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.5619</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0202	0.0220	4.0000e-005		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	3.0639	3.0639	2.4000e-004	0.0000	3.0698
<b>Total</b>	<b>0.1017</b>	<b>0.0202</b>	<b>0.0220</b>	<b>4.0000e-005</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.0639</b>	<b>3.0639</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>3.0698</b>

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**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	2.8900e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7829	0.7829	2.0000e-005	0.0000	0.7835
<b>Total</b>	<b>4.0000e-004</b>	<b>2.9000e-004</b>	<b>2.8900e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7829</b>	<b>0.7829</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7835</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0202	0.0220	4.0000e-005		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	3.0639	3.0639	2.4000e-004	0.0000	3.0698
<b>Total</b>	<b>0.1017</b>	<b>0.0202</b>	<b>0.0220</b>	<b>4.0000e-005</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.0639</b>	<b>3.0639</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>3.0698</b>

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**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	2.8900e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7829	0.7829	2.0000e-005	0.0000	0.7835
<b>Total</b>	<b>4.0000e-004</b>	<b>2.9000e-004</b>	<b>2.8900e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7829</b>	<b>0.7829</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7835</b>

**3.7 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0423	0.0444	7.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	5.8829	5.8829	1.8600e-003	0.0000	5.9295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.2000e-003</b>	<b>0.0423</b>	<b>0.0444</b>	<b>7.0000e-005</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>5.8829</b>	<b>5.8829</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>5.9295</b>



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**3.7 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4712	0.4712	1.0000e-005	0.0000	0.4715
<b>Total</b>	<b>2.4000e-004</b>	<b>1.8000e-004</b>	<b>1.7400e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4712</b>	<b>0.4712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4715</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0423	0.0444	7.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003	0.0000	5.8828	5.8828	1.8600e-003	0.0000	5.9295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.2000e-003</b>	<b>0.0423</b>	<b>0.0444</b>	<b>7.0000e-005</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>5.8828</b>	<b>5.8828</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>5.9295</b>

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**3.7 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4712	0.4712	1.0000e-005	0.0000	0.4715
<b>Total</b>	<b>2.4000e-004</b>	<b>1.8000e-004</b>	<b>1.7400e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4712</b>	<b>0.4712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4715</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Increase Transit Accessibility

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2882	0.9979	2.0946	4.4700e-003	0.3115	4.9700e-003	0.3164	0.0834	4.6500e-003	0.0881	0.0000	412.7028	412.7028	0.0319	0.0000	413.5011
Unmitigated	0.3297	1.2680	2.9849	8.0400e-003	0.6257	8.4200e-003	0.6341	0.1676	7.9000e-003	0.1755	0.0000	740.9384	740.9384	0.0471	0.0000	742.1156

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	306.00	306.00	306.00	553,913	275,727
High Turnover (Sit Down Restaurant)	538.00	538.00	538.00	469,018	233,468
Hotel	423.00	423.00	423.00	582,630	290,022
Strip Mall	48.40	48.40	48.40	54,526	27,142
Total	1,315.40	1,315.40	1,315.40	1,660,087	826,358

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.60	5.60	5.60	41.60	18.80	39.60	86	11	3
High Turnover (Sit Down)	5.60	5.60	5.60	8.50	72.50	19.00	37	20	43
Hotel	5.60	5.60	5.60	19.40	61.60	19.00	58	38	4
Strip Mall	5.60	5.60	5.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
High Turnover (Sit Down Restaurant)	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Hotel	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Strip Mall	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	120.2088	120.2088	4.7300e-003	1.0500e-003	120.6404
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	137.4686	137.4686	5.4100e-003	1.2000e-003	137.9623
NaturalGas Mitigated	0.0128	0.1156	0.0898	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	126.9999	126.9999	2.4300e-003	2.3300e-003	127.7546
NaturalGas Unmitigated	0.0128	0.1156	0.0898	7.0000e-004		8.8700e-003	8.8700e-003		8.8700e-003	8.8700e-003	0.0000	126.9999	126.9999	2.4300e-003	2.3300e-003	127.7546

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	378866	2.0400e-003	0.0175	7.4300e-003	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.2177	20.2177	3.9000e-004	3.7000e-004	20.3379
High Turnover (Sit Down Restaurant)	939036	5.0600e-003	0.0460	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1106	50.1106	9.6000e-004	9.2000e-004	50.4083
Hotel	1.0593e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5282	56.5282	1.0800e-003	1.0400e-003	56.8641
Strip Mall	2687.15	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1434	0.1434	0.0000	0.0000	0.1443
<b>Total</b>		<b>0.0128</b>	<b>0.1156</b>	<b>0.0898</b>	<b>7.0000e-004</b>		<b>8.8700e-003</b>	<b>8.8700e-003</b>		<b>8.8700e-003</b>	<b>8.8700e-003</b>	<b>0.0000</b>	<b>126.9999</b>	<b>126.9999</b>	<b>2.4300e-003</b>	<b>2.3300e-003</b>	<b>127.7546</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	378866	2.0400e-003	0.0175	7.4300e-003	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.2177	20.2177	3.9000e-004	3.7000e-004	20.3379
High Turnover (Sit Down Restaurant)	939036	5.0600e-003	0.0460	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1106	50.1106	9.6000e-004	9.2000e-004	50.4083
Hotel	1.0593e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5282	56.5282	1.0800e-003	1.0400e-003	56.8641
Strip Mall	2687.15	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1434	0.1434	0.0000	0.0000	0.1443
<b>Total</b>		<b>0.0128</b>	<b>0.1156</b>	<b>0.0898</b>	<b>7.0000e-004</b>		<b>8.8700e-003</b>	<b>8.8700e-003</b>		<b>8.8700e-003</b>	<b>8.8700e-003</b>	<b>0.0000</b>	<b>126.9999</b>	<b>126.9999</b>	<b>2.4300e-003</b>	<b>2.3300e-003</b>	<b>127.7546</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	204251	42.3628	1.6700e-003	3.7000e-004	42.5149
High Turnover (Sit Down Restaurant)	208400	43.2231	1.7000e-003	3.8000e-004	43.3783
Hotel	235017	48.7436	1.9200e-003	4.3000e-004	48.9187
Strip Mall	15134.8	3.1390	1.2000e-004	3.0000e-005	3.1503
<b>Total</b>		<b>137.4686</b>	<b>5.4100e-003</b>	<b>1.2100e-003</b>	<b>137.9623</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	180087	37.3510	1.4700e-003	3.3000e-004	37.4852
High Turnover (Sit Down Restaurant)	189650	39.3343	1.5500e-003	3.4000e-004	39.4755
Hotel	213463	44.2733	1.7400e-003	3.9000e-004	44.4323
Strip Mall	-3615.2	-0.7498	0.0000	0.0000	-0.7525
<b>Total</b>		<b>120.2088</b>	<b>4.7300e-003</b>	<b>1.0500e-003</b>	<b>120.6405</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3062	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347
Unmitigated	0.3062	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0412					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0116	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347
<b>Total</b>	<b>0.3062</b>	<b>4.4000e-003</b>	<b>0.3804</b>	<b>2.0000e-005</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>0.6195</b>	<b>0.6195</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.6347</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0412					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0116	4.4000e-003	0.3804	2.0000e-005		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	0.6195	0.6195	6.1000e-004	0.0000	0.6347
<b>Total</b>	<b>0.3062</b>	<b>4.4000e-003</b>	<b>0.3804</b>	<b>2.0000e-005</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>0.6195</b>	<b>0.6195</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.6347</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Use Reclaimed Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.4592	0.1633	4.0000e-003	24.7327
Unmitigated	20.5590	0.1634	4.0100e-003	25.8365

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.65828 / 2.09484	12.8495	0.0871	2.1500e-003	15.6676
High Turnover (Sit Down Restaurant)	1.30641 / 0.104235	4.1828	0.0427	1.0400e-003	5.5601
Hotel	0.953791 / 0.132471	3.1837	0.0312	7.6000e-004	4.1897
Strip Mall	0.0717422 / 0.0549331	0.3431	2.3500e-003	6.0000e-005	0.4191
<b>Total</b>		<b>20.5590</b>	<b>0.1634</b>	<b>4.0100e-003</b>	<b>25.8365</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.65828 / 1.67587	11.8840	0.0871	2.1400e-003	14.6987
High Turnover (Sit Down Restaurant)	1.30641 / 0.0833878	4.1347	0.0427	1.0400e-003	5.5119
Hotel	0.953791 / 0.105977	3.1226	0.0312	7.6000e-004	4.1284
Strip Mall	0.0717422 / 0.0439465	0.3178	2.3500e-003	6.0000e-005	0.3937
<b>Total</b>		<b>19.4592</b>	<b>0.1633</b>	<b>4.0000e-003</b>	<b>24.7327</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.4288	1.0300	0.0000	43.1791
Unmitigated	23.2384	1.3734	0.0000	57.5722

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	23.46	4.7622	0.2814	0.0000	11.7981
High Turnover (Sit Down Restaurant)	64.02	12.9955	0.7680	0.0000	32.1958
Hotel	25.73	5.2230	0.3087	0.0000	12.9397
Strip Mall	1.27	0.2578	0.0152	0.0000	0.6387
<b>Total</b>		<b>23.2384</b>	<b>1.3734</b>	<b>0.0000</b>	<b>57.5722</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	17.595	3.5716	0.2111	0.0000	8.8486
High Turnover (Sit Down Restaurant)	48.015	9.7466	0.5760	0.0000	24.1468
Hotel	19.2975	3.9172	0.2315	0.0000	9.7047
Strip Mall	0.9525	0.1934	0.0114	0.0000	0.4790
<b>Total</b>		<b>17.4288</b>	<b>1.0300</b>	<b>0.0000</b>	<b>43.1791</b>

**9.0 Operational Offroad**

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

**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**

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Equipment Type	Number
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## 11.0 Vegetation

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