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**APPENDIX G**

**AIR QUALITY AND GHG EMISSIONS DATA  
AND CALCULATIONS**

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Northgate Market Center - San Bernardino-South Coast County, Summer

**Northgate Market Center**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	56.92	1000sqft	1.31	56,917.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Northgate Market Center - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - The Project as a single shopping center (ITE 820)

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 16940 cubic yards / 20 cubic yards per truck = 897 trucks

Grading - 7 acres of pavement @ 1.5 foot depth = 16940 cubic yards removed

Vehicle Trips - Trip rates provided by client & trip lengths from SANDAG Brief Guide of Vehicular Traffic Generation Rates

Construction Off-road Equipment Mitigation - Clean Paved Road percentage from SCAQMD's Table XI-C, Mitigation Measures

## Northgate Market Center - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	10.00	63.00
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	AcresOfGrading	5.00	1.00
tblGrading	MaterialExported	0.00	16,940.00
tblLandUse	LandUseSquareFeet	56,920.00	56,917.00
tblTripsAndVMT	HaulingTripNumber	2,118.00	847.00
tblVehicleTrips	CC_TL	8.40	3.20
tblVehicleTrips	CNW_TL	6.90	2.60
tblVehicleTrips	CW_TL	16.60	6.30
tblVehicleTrips	ST_TR	49.97	73.00
tblVehicleTrips	SU_TR	25.24	41.99
tblVehicleTrips	WD_TR	42.70	59.75

## 2.0 Emissions Summary

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Northgate Market Center - San Bernardino-South Coast County, Summer

**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	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
Mobile	5.7605	31.1273	33.7491	0.1301	7.3026	0.0716	7.3742	1.9540	0.0667	2.0207		13,376.64 47	13,376.64 47	0.9126		13,399.45 90
<b>Total</b>	<b>7.0363</b>	<b>31.1612</b>	<b>33.7834</b>	<b>0.1303</b>	<b>7.3026</b>	<b>0.0742</b>	<b>7.3768</b>	<b>1.9540</b>	<b>0.0693</b>	<b>2.0233</b>		<b>13,417.38 43</b>	<b>13,417.38 43</b>	<b>0.9134</b>	<b>7.5000e-004</b>	<b>13,440.44 13</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	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
Mobile	5.7605	31.1273	33.7491	0.1301	7.3026	0.0716	7.3742	1.9540	0.0667	2.0207		13,376.64 47	13,376.64 47	0.9126		13,399.45 90
<b>Total</b>	<b>7.0363</b>	<b>31.1612</b>	<b>33.7834</b>	<b>0.1303</b>	<b>7.3026</b>	<b>0.0742</b>	<b>7.3768</b>	<b>1.9540</b>	<b>0.0693</b>	<b>2.0233</b>		<b>13,417.38 43</b>	<b>13,417.38 43</b>	<b>0.9134</b>	<b>7.5000e-004</b>	<b>13,440.44 13</b>

Northgate Market Center - San Bernardino-South Coast County, 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/15/2021	5	10	removal of existing asphalt
2	Grading	Grading	8/16/2021	11/15/2021	5	66	Includes excavation for buildings
3	Building Construction	Building Construction	11/16/2021	2/15/2022	5	66	Includes concrete & framing
4	Paving	Paving	2/16/2022	2/17/2022	5	2	
5	Architectural Coating	Architectural Coating	2/16/2022	5/13/2022	5	63	
6	Trenching	Trenching	2/18/2022	5/31/2022	5	73	Wet & dry utility lines

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 85,376; Non-Residential Outdoor: 28,459; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Northgate Market Center - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Trenchers	1	6.00	78	0.50

Trips and VMT



Northgate Market Center - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	847.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.5670	0.0000	5.5670	2.9369	0.0000	2.9369			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>5.5670</b>	<b>0.7654</b>	<b>6.3323</b>	<b>2.9369</b>	<b>0.7041</b>	<b>3.6411</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2021**

**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	0.5033	19.3189	2.9922	0.0658	1.4823	0.0547	1.5369	0.4064	0.0523	0.4587		6,989.3566	6,989.3566	0.3747		6,998.7231
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	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.5439</b>	<b>19.3441</b>	<b>3.3234</b>	<b>0.0667</b>	<b>1.5717</b>	<b>0.0552</b>	<b>1.6269</b>	<b>0.4301</b>	<b>0.0528</b>	<b>0.4829</b>		<b>7,076.8831</b>	<b>7,076.8831</b>	<b>0.3772</b>		<b>7,086.3119</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					2.1711	0.0000	2.1711	1.1454	0.0000	1.1454			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>2.1711</b>	<b>0.7654</b>	<b>2.9365</b>	<b>1.1454</b>	<b>0.7041</b>	<b>1.8495</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2021**

**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	0.5033	19.3189	2.9922	0.0658	1.1911	0.0547	1.2458	0.3349	0.0523	0.3872		6,989.3566	6,989.3566	0.3747		6,998.7231
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	0.0407	0.0251	0.3312	8.8000e-004	0.0692	5.7000e-004	0.0698	0.0188	5.3000e-004	0.0193		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.5439</b>	<b>19.3441</b>	<b>3.3234</b>	<b>0.0667</b>	<b>1.2603</b>	<b>0.0552</b>	<b>1.3155</b>	<b>0.3537</b>	<b>0.0528</b>	<b>0.4065</b>		<b>7,076.8831</b>	<b>7,076.8831</b>	<b>0.3772</b>		<b>7,086.3119</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
<b>Total</b>	<b>1.2884</b>	<b>14.3307</b>	<b>6.3314</b>	<b>0.0141</b>	<b>4.5407</b>	<b>0.6379</b>	<b>5.1786</b>	<b>2.4853</b>	<b>0.5869</b>	<b>3.0722</b>		<b>1,365.0648</b>	<b>1,365.0648</b>	<b>0.4415</b>		<b>1,376.1020</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.3 Grading - 2021**

**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	0.0407	0.0251	0.3312	8.8000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.0407</b>	<b>0.0251</b>	<b>0.3312</b>	<b>8.8000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>87.5264</b>	<b>87.5264</b>	<b>2.4900e-003</b>		<b>87.5887</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					1.7709	0.0000	1.7709	0.9693	0.0000	0.9693			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
<b>Total</b>	<b>1.2884</b>	<b>14.3307</b>	<b>6.3314</b>	<b>0.0141</b>	<b>1.7709</b>	<b>0.6379</b>	<b>2.4088</b>	<b>0.9693</b>	<b>0.5869</b>	<b>1.5561</b>	<b>0.0000</b>	<b>1,365.0648</b>	<b>1,365.0648</b>	<b>0.4415</b>		<b>1,376.1020</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.3 Grading - 2021**

**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	0.0407	0.0251	0.3312	8.8000e-004	0.0692	5.7000e-004	0.0698	0.0188	5.3000e-004	0.0193		87.5264	87.5264	2.4900e-003		87.5887
<b>Total</b>	<b>0.0407</b>	<b>0.0251</b>	<b>0.3312</b>	<b>8.8000e-004</b>	<b>0.0692</b>	<b>5.7000e-004</b>	<b>0.0698</b>	<b>0.0188</b>	<b>5.3000e-004</b>	<b>0.0193</b>		<b>87.5264</b>	<b>87.5264</b>	<b>2.4900e-003</b>		<b>87.5887</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2021**

**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	0.0233	0.8679	0.1633	2.4300e-003	0.0576	1.4900e-003	0.0591	0.0166	1.4200e-003	0.0180		256.1304	256.1304	0.0162		256.5350
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
<b>Total</b>	<b>0.1148</b>	<b>0.9245</b>	<b>0.9085</b>	<b>4.4100e-003</b>	<b>0.2588</b>	<b>2.7800e-003</b>	<b>0.2616</b>	<b>0.0700</b>	<b>2.6100e-003</b>	<b>0.0726</b>		<b>453.0649</b>	<b>453.0649</b>	<b>0.0218</b>		<b>453.6097</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2021**

**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	0.0233	0.8679	0.1633	2.4300e-003	0.0470	1.4900e-003	0.0485	0.0140	1.4200e-003	0.0154		256.1304	256.1304	0.0162		256.5350
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.1557	1.2900e-003	0.1570	0.0422	1.1900e-003	0.0434		196.9345	196.9345	5.6000e-003		197.0746
<b>Total</b>	<b>0.1148</b>	<b>0.9245</b>	<b>0.9085</b>	<b>4.4100e-003</b>	<b>0.2027</b>	<b>2.7800e-003</b>	<b>0.2055</b>	<b>0.0562</b>	<b>2.6100e-003</b>	<b>0.0588</b>		<b>453.0649</b>	<b>453.0649</b>	<b>0.0218</b>		<b>453.6097</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2022**

**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	0.0217	0.8232	0.1510	2.4100e-003	0.0576	1.2500e-003	0.0589	0.0166	1.2000e-003	0.0178		254.0768	254.0768	0.0156		254.4675
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.1071</b>	<b>0.8740</b>	<b>0.8356</b>	<b>4.3200e-003</b>	<b>0.2588</b>	<b>2.5000e-003</b>	<b>0.2613</b>	<b>0.0700</b>	<b>2.3500e-003</b>	<b>0.0723</b>		<b>443.9053</b>	<b>443.9053</b>	<b>0.0207</b>		<b>444.4216</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>



Northgate Market Center - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2022**

**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	0.0217	0.8232	0.1510	2.4100e-003	0.0470	1.2500e-003	0.0482	0.0140	1.2000e-003	0.0152		254.0768	254.0768	0.0156		254.4675
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.1557	1.2500e-003	0.1570	0.0422	1.1500e-003	0.0434		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.1071</b>	<b>0.8740</b>	<b>0.8356</b>	<b>4.3200e-003</b>	<b>0.2027</b>	<b>2.5000e-003</b>	<b>0.2052</b>	<b>0.0562</b>	<b>2.3500e-003</b>	<b>0.0585</b>		<b>443.9053</b>	<b>443.9053</b>	<b>0.0207</b>		<b>444.4216</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.5 Paving - 2022**

**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	0.0617	0.0367	0.4944	1.3800e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		137.0983	137.0983	3.6300e-003		137.1891
<b>Total</b>	<b>0.0617</b>	<b>0.0367</b>	<b>0.4944</b>	<b>1.3800e-003</b>	<b>0.1453</b>	<b>9.0000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.3000e-004</b>	<b>0.0394</b>		<b>137.0983</b>	<b>137.0983</b>	<b>3.6300e-003</b>		<b>137.1891</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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.5 Paving - 2022**

**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	0.0617	0.0367	0.4944	1.3800e-003	0.1125	9.0000e-004	0.1134	0.0305	8.3000e-004	0.0313		137.0983	137.0983	3.6300e-003		137.1891
<b>Total</b>	<b>0.0617</b>	<b>0.0367</b>	<b>0.4944</b>	<b>1.3800e-003</b>	<b>0.1125</b>	<b>9.0000e-004</b>	<b>0.1134</b>	<b>0.0305</b>	<b>8.3000e-004</b>	<b>0.0313</b>		<b>137.0983</b>	<b>137.0983</b>	<b>3.6300e-003</b>		<b>137.1891</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.3750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>8.5795</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2022**

**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	0.0190	0.0113	0.1521	4.2000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		42.1841	42.1841	1.1200e-003		42.2120
<b>Total</b>	<b>0.0190</b>	<b>0.0113</b>	<b>0.1521</b>	<b>4.2000e-004</b>	<b>0.0447</b>	<b>2.8000e-004</b>	<b>0.0450</b>	<b>0.0119</b>	<b>2.6000e-004</b>	<b>0.0121</b>		<b>42.1841</b>	<b>42.1841</b>	<b>1.1200e-003</b>		<b>42.2120</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	8.3750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>8.5795</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2022**

**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	0.0190	0.0113	0.1521	4.2000e-004	0.0346	2.8000e-004	0.0349	9.3800e-003	2.6000e-004	9.6300e-003		42.1841	42.1841	1.1200e-003		42.2120
<b>Total</b>	<b>0.0190</b>	<b>0.0113</b>	<b>0.1521</b>	<b>4.2000e-004</b>	<b>0.0346</b>	<b>2.8000e-004</b>	<b>0.0349</b>	<b>9.3800e-003</b>	<b>2.6000e-004</b>	<b>9.6300e-003</b>		<b>42.1841</b>	<b>42.1841</b>	<b>1.1200e-003</b>		<b>42.2120</b>

**3.7 Trenching - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274		471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>		<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.7 Trenching - 2022**

**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	0.0237	0.0141	0.1902	5.3000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		52.7301	52.7301	1.4000e-003		52.7650
<b>Total</b>	<b>0.0237</b>	<b>0.0141</b>	<b>0.1902</b>	<b>5.3000e-004</b>	<b>0.0559</b>	<b>3.5000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.2000e-004</b>	<b>0.0151</b>		<b>52.7301</b>	<b>52.7301</b>	<b>1.4000e-003</b>		<b>52.7650</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	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>	<b>0.0000</b>	<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Northgate Market Center - San Bernardino-South Coast County, Summer

**3.7 Trenching - 2022**

**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	0.0237	0.0141	0.1902	5.3000e-004	0.0433	3.5000e-004	0.0436	0.0117	3.2000e-004	0.0120		52.7301	52.7301	1.4000e-003		52.7650
<b>Total</b>	<b>0.0237</b>	<b>0.0141</b>	<b>0.1902</b>	<b>5.3000e-004</b>	<b>0.0433</b>	<b>3.5000e-004</b>	<b>0.0436</b>	<b>0.0117</b>	<b>3.2000e-004</b>	<b>0.0120</b>		<b>52.7301</b>	<b>52.7301</b>	<b>1.4000e-003</b>		<b>52.7650</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Northgate Market Center - San Bernardino-South Coast County, 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	5.7605	31.1273	33.7491	0.1301	7.3026	0.0716	7.3742	1.9540	0.0667	2.0207		13,376.64 47	13,376.64 47	0.9126		13,399.45 90
Unmitigated	5.7605	31.1273	33.7491	0.1301	7.3026	0.0716	7.3742	1.9540	0.0667	2.0207		13,376.64 47	13,376.64 47	0.9126		13,399.45 90

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,400.97	4,155.16	2390.07	2,773,166	2,773,166
Total	3,400.97	4,155.16	2,390.07	2,773,166	2,773,166

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
Regional Shopping Center	6.30	3.20	2.60	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N



Northgate Market Center - San Bernardino-South Coast County, Summer

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
NaturalGas Unmitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691

**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					
Regional Shopping Center	346.18	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
<b>Total</b>		<b>3.7300e-003</b>	<b>0.0339</b>	<b>0.0285</b>	<b>2.0000e-004</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>40.7271</b>	<b>40.7271</b>	<b>7.8000e-004</b>	<b>7.5000e-004</b>	<b>40.9691</b>

Northgate Market Center - San Bernardino-South Coast County, 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					
Regional Shopping Center	0.34618	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
<b>Total</b>		<b>3.7300e-003</b>	<b>0.0339</b>	<b>0.0285</b>	<b>2.0000e-004</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>40.7271</b>	<b>40.7271</b>	<b>7.8000e-004</b>	<b>7.5000e-004</b>	<b>40.9691</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Unmitigated	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133

Northgate Market Center - San Bernardino-South Coast County, Summer

**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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
<b>Total</b>	<b>1.2721</b>	<b>5.0000e-005</b>	<b>5.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>		<b>0.0133</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
<b>Total</b>	<b>1.2721</b>	<b>5.0000e-005</b>	<b>5.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>		<b>0.0133</b>

**7.0 Water Detail**

## Northgate Market Center - San Bernardino-South Coast County, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Northgate Market Center - San Bernardino-South Coast County, Winter

**Northgate Market Center**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	56.92	1000sqft	1.31	56,917.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Northgate Market Center - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - The Project as a single shopping center (ITE 820)

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 16940 cubic yards / 20 cubic yards per truck = 897 trucks

Grading - 7 acres of pavement @ 1.5 foot depth = 16940 cubic yards removed

Vehicle Trips - Trip rates provided by client & trip lengths from SANDAG Brief Guide of Vehicular Traffic Generation Rates

Construction Off-road Equipment Mitigation - Clean Paved Road percentage from SCAQMD's Table XI-C, Mitigation Measures

## Northgate Market Center - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	10.00	63.00
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	AcresOfGrading	5.00	1.00
tblGrading	MaterialExported	0.00	16,940.00
tblLandUse	LandUseSquareFeet	56,920.00	56,917.00
tblTripsAndVMT	HaulingTripNumber	2,118.00	847.00
tblVehicleTrips	CC_TL	8.40	3.20
tblVehicleTrips	CNW_TL	6.90	2.60
tblVehicleTrips	CW_TL	16.60	6.30
tblVehicleTrips	ST_TR	49.97	73.00
tblVehicleTrips	SU_TR	25.24	41.99
tblVehicleTrips	WD_TR	42.70	59.75

## 2.0 Emissions Summary

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Northgate Market Center - San Bernardino-South Coast County, 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	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
Mobile	4.8342	30.5265	33.0610	0.1187	7.3026	0.0730	7.3756	1.9540	0.0679	2.0219		12,203.7845	12,203.7845	0.9839		12,228.3806
<b>Total</b>	<b>6.1100</b>	<b>30.5605</b>	<b>33.0953</b>	<b>0.1189</b>	<b>7.3026</b>	<b>0.0756</b>	<b>7.3782</b>	<b>1.9540</b>	<b>0.0705</b>	<b>2.0245</b>		<b>12,244.5240</b>	<b>12,244.5240</b>	<b>0.9847</b>	<b>7.5000e-004</b>	<b>12,269.3630</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	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
Mobile	4.8342	30.5265	33.0610	0.1187	7.3026	0.0730	7.3756	1.9540	0.0679	2.0219		12,203.7845	12,203.7845	0.9839		12,228.3806
<b>Total</b>	<b>6.1100</b>	<b>30.5605</b>	<b>33.0953</b>	<b>0.1189</b>	<b>7.3026</b>	<b>0.0756</b>	<b>7.3782</b>	<b>1.9540</b>	<b>0.0705</b>	<b>2.0245</b>		<b>12,244.5240</b>	<b>12,244.5240</b>	<b>0.9847</b>	<b>7.5000e-004</b>	<b>12,269.3630</b>

Northgate Market Center - San Bernardino-South Coast County, 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/15/2021	5	10	removal of existing asphalt
2	Grading	Grading	8/16/2021	11/15/2021	5	66	Includes excavation for buildings
3	Building Construction	Building Construction	11/16/2021	2/15/2022	5	66	Includes concrete & framing
4	Paving	Paving	2/16/2022	2/17/2022	5	2	
5	Architectural Coating	Architectural Coating	2/16/2022	5/13/2022	5	63	
6	Trenching	Trenching	2/18/2022	5/31/2022	5	73	Wet & dry utility lines

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 85,376; Non-Residential Outdoor: 28,459; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Northgate Market Center - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Trenchers	1	6.00	78	0.50

Trips and VMT

Northgate Market Center - San Bernardino-South Coast County, 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
Site Preparation	3	8.00	0.00	847.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.5670	0.0000	5.5670	2.9369	0.0000	2.9369			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>5.5670</b>	<b>0.7654</b>	<b>6.3323</b>	<b>2.9369</b>	<b>0.7041</b>	<b>3.6411</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2021**

**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	0.5260	19.3915	3.4173	0.0641	1.4823	0.0554	1.5377	0.4064	0.0530	0.4594		6,806.1849	6,806.1849	0.4069		6,816.3568
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	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.5668</b>	<b>19.4180</b>	<b>3.6889</b>	<b>0.0649</b>	<b>1.5717</b>	<b>0.0560</b>	<b>1.6277</b>	<b>0.4301</b>	<b>0.0535</b>	<b>0.4836</b>		<b>6,884.7047</b>	<b>6,884.7047</b>	<b>0.4091</b>		<b>6,894.9313</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					2.1711	0.0000	2.1711	1.1454	0.0000	1.1454			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>2.1711</b>	<b>0.7654</b>	<b>2.9365</b>	<b>1.1454</b>	<b>0.7041</b>	<b>1.8495</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2021**

**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	0.5260	19.3915	3.4173	0.0641	1.1911	0.0554	1.2465	0.3349	0.0530	0.3879		6,806.1849	6,806.1849	0.4069		6,816.3568
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	0.0407	0.0264	0.2717	7.9000e-004	0.0692	5.7000e-004	0.0698	0.0188	5.3000e-004	0.0193		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.5668</b>	<b>19.4180</b>	<b>3.6889</b>	<b>0.0649</b>	<b>1.2603</b>	<b>0.0560</b>	<b>1.3163</b>	<b>0.3537</b>	<b>0.0535</b>	<b>0.4072</b>		<b>6,884.7047</b>	<b>6,884.7047</b>	<b>0.4091</b>		<b>6,894.9313</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5407	0.0000	4.5407	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
<b>Total</b>	<b>1.2884</b>	<b>14.3307</b>	<b>6.3314</b>	<b>0.0141</b>	<b>4.5407</b>	<b>0.6379</b>	<b>5.1786</b>	<b>2.4853</b>	<b>0.5869</b>	<b>3.0722</b>		<b>1,365.0648</b>	<b>1,365.0648</b>	<b>0.4415</b>		<b>1,376.1020</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.3 Grading - 2021**

**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	0.0407	0.0264	0.2717	7.9000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.0407</b>	<b>0.0264</b>	<b>0.2717</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>78.5198</b>	<b>78.5198</b>	<b>2.1900e-003</b>		<b>78.5745</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					1.7709	0.0000	1.7709	0.9693	0.0000	0.9693			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
<b>Total</b>	<b>1.2884</b>	<b>14.3307</b>	<b>6.3314</b>	<b>0.0141</b>	<b>1.7709</b>	<b>0.6379</b>	<b>2.4088</b>	<b>0.9693</b>	<b>0.5869</b>	<b>1.5561</b>	<b>0.0000</b>	<b>1,365.0648</b>	<b>1,365.0648</b>	<b>0.4415</b>		<b>1,376.1020</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.3 Grading - 2021**

**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	0.0407	0.0264	0.2717	7.9000e-004	0.0692	5.7000e-004	0.0698	0.0188	5.3000e-004	0.0193		78.5198	78.5198	2.1900e-003		78.5745
<b>Total</b>	<b>0.0407</b>	<b>0.0264</b>	<b>0.2717</b>	<b>7.9000e-004</b>	<b>0.0692</b>	<b>5.7000e-004</b>	<b>0.0698</b>	<b>0.0188</b>	<b>5.3000e-004</b>	<b>0.0193</b>		<b>78.5198</b>	<b>78.5198</b>	<b>2.1900e-003</b>		<b>78.5745</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>



Northgate Market Center - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2021**

**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	0.0247	0.8587	0.1910	2.3300e-003	0.0576	1.5300e-003	0.0592	0.0166	1.4600e-003	0.0181		246.1816	246.1816	0.0179		246.6301
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
<b>Total</b>	<b>0.1164</b>	<b>0.9182</b>	<b>0.8022</b>	<b>4.1000e-003</b>	<b>0.2588</b>	<b>2.8200e-003</b>	<b>0.2617</b>	<b>0.0700</b>	<b>2.6500e-003</b>	<b>0.0726</b>		<b>422.8512</b>	<b>422.8512</b>	<b>0.0229</b>		<b>423.4227</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2021**

**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	0.0247	0.8587	0.1910	2.3300e-003	0.0470	1.5300e-003	0.0485	0.0140	1.4600e-003	0.0154		246.1816	246.1816	0.0179		246.6301
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.1557	1.2900e-003	0.1570	0.0422	1.1900e-003	0.0434		176.6696	176.6696	4.9200e-003		176.7925
<b>Total</b>	<b>0.1164</b>	<b>0.9182</b>	<b>0.8022</b>	<b>4.1000e-003</b>	<b>0.2027</b>	<b>2.8200e-003</b>	<b>0.2055</b>	<b>0.0562</b>	<b>2.6500e-003</b>	<b>0.0588</b>		<b>422.8512</b>	<b>422.8512</b>	<b>0.0229</b>		<b>423.4227</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2022**

**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	0.0230	0.8135	0.1774	2.3100e-003	0.0576	1.2900e-003	0.0589	0.0166	1.2300e-003	0.0178		244.1306	244.1306	0.0174		244.5643
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.1089</b>	<b>0.8669</b>	<b>0.7379</b>	<b>4.0200e-003</b>	<b>0.2588</b>	<b>2.5400e-003</b>	<b>0.2614</b>	<b>0.0700</b>	<b>2.3800e-003</b>	<b>0.0723</b>		<b>414.4369</b>	<b>414.4369</b>	<b>0.0218</b>		<b>414.9809</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2022**

**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	0.0230	0.8135	0.1774	2.3100e-003	0.0470	1.2900e-003	0.0483	0.0140	1.2300e-003	0.0152		244.1306	244.1306	0.0174		244.5643
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.1557	1.2500e-003	0.1570	0.0422	1.1500e-003	0.0434		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.1089</b>	<b>0.8669</b>	<b>0.7379</b>	<b>4.0200e-003</b>	<b>0.2027</b>	<b>2.5400e-003</b>	<b>0.2052</b>	<b>0.0562</b>	<b>2.3800e-003</b>	<b>0.0586</b>		<b>414.4369</b>	<b>414.4369</b>	<b>0.0218</b>		<b>414.9809</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.5 Paving - 2022**

**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	0.0620	0.0386	0.4048	1.2300e-003	0.1453	9.0000e-004	0.1462	0.0385	8.3000e-004	0.0394		122.9990	122.9990	3.1900e-003		123.0787
<b>Total</b>	<b>0.0620</b>	<b>0.0386</b>	<b>0.4048</b>	<b>1.2300e-003</b>	<b>0.1453</b>	<b>9.0000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.3000e-004</b>	<b>0.0394</b>		<b>122.9990</b>	<b>122.9990</b>	<b>3.1900e-003</b>		<b>123.0787</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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.5 Paving - 2022**

**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	0.0620	0.0386	0.4048	1.2300e-003	0.1125	9.0000e-004	0.1134	0.0305	8.3000e-004	0.0313		122.9990	122.9990	3.1900e-003		123.0787
<b>Total</b>	<b>0.0620</b>	<b>0.0386</b>	<b>0.4048</b>	<b>1.2300e-003</b>	<b>0.1125</b>	<b>9.0000e-004</b>	<b>0.1134</b>	<b>0.0305</b>	<b>8.3000e-004</b>	<b>0.0313</b>		<b>122.9990</b>	<b>122.9990</b>	<b>3.1900e-003</b>		<b>123.0787</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.3750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>8.5795</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2022**

**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	0.0191	0.0119	0.1246	3.8000e-004	0.0447	2.8000e-004	0.0450	0.0119	2.6000e-004	0.0121		37.8458	37.8458	9.8000e-004		37.8704
<b>Total</b>	<b>0.0191</b>	<b>0.0119</b>	<b>0.1246</b>	<b>3.8000e-004</b>	<b>0.0447</b>	<b>2.8000e-004</b>	<b>0.0450</b>	<b>0.0119</b>	<b>2.6000e-004</b>	<b>0.0121</b>		<b>37.8458</b>	<b>37.8458</b>	<b>9.8000e-004</b>		<b>37.8704</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	8.3750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>8.5795</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2022**

**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	0.0191	0.0119	0.1246	3.8000e-004	0.0346	2.8000e-004	0.0349	9.3800e-003	2.6000e-004	9.6300e-003		37.8458	37.8458	9.8000e-004		37.8704
<b>Total</b>	<b>0.0191</b>	<b>0.0119</b>	<b>0.1246</b>	<b>3.8000e-004</b>	<b>0.0346</b>	<b>2.8000e-004</b>	<b>0.0349</b>	<b>9.3800e-003</b>	<b>2.6000e-004</b>	<b>9.6300e-003</b>		<b>37.8458</b>	<b>37.8458</b>	<b>9.8000e-004</b>		<b>37.8704</b>

**3.7 Trenching - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274		471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>		<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>



Northgate Market Center - San Bernardino-South Coast County, Winter

**3.7 Trenching - 2022**

**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	0.0238	0.0148	0.1557	4.7000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		47.3073	47.3073	1.2300e-003		47.3380
<b>Total</b>	<b>0.0238</b>	<b>0.0148</b>	<b>0.1557</b>	<b>4.7000e-004</b>	<b>0.0559</b>	<b>3.5000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.2000e-004</b>	<b>0.0151</b>		<b>47.3073</b>	<b>47.3073</b>	<b>1.2300e-003</b>		<b>47.3380</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	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>	<b>0.0000</b>	<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Northgate Market Center - San Bernardino-South Coast County, Winter

**3.7 Trenching - 2022**

**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	0.0238	0.0148	0.1557	4.7000e-004	0.0433	3.5000e-004	0.0436	0.0117	3.2000e-004	0.0120		47.3073	47.3073	1.2300e-003		47.3380
<b>Total</b>	<b>0.0238</b>	<b>0.0148</b>	<b>0.1557</b>	<b>4.7000e-004</b>	<b>0.0433</b>	<b>3.5000e-004</b>	<b>0.0436</b>	<b>0.0117</b>	<b>3.2000e-004</b>	<b>0.0120</b>		<b>47.3073</b>	<b>47.3073</b>	<b>1.2300e-003</b>		<b>47.3380</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Northgate Market Center - San Bernardino-South Coast County, 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	4.8342	30.5265	33.0610	0.1187	7.3026	0.0730	7.3756	1.9540	0.0679	2.0219		12,203.7845	12,203.7845	0.9839		12,228.3806
Unmitigated	4.8342	30.5265	33.0610	0.1187	7.3026	0.0730	7.3756	1.9540	0.0679	2.0219		12,203.7845	12,203.7845	0.9839		12,228.3806

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,400.97	4,155.16	2390.07	2,773,166	2,773,166
Total	3,400.97	4,155.16	2,390.07	2,773,166	2,773,166

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
Regional Shopping Center	6.30	3.20	2.60	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

Northgate Market Center - San Bernardino-South Coast County, Winter

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
NaturalGas Unmitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691

**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					
Regional Shopping Center	346.18	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
<b>Total</b>		<b>3.7300e-003</b>	<b>0.0339</b>	<b>0.0285</b>	<b>2.0000e-004</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>40.7271</b>	<b>40.7271</b>	<b>7.8000e-004</b>	<b>7.5000e-004</b>	<b>40.9691</b>

Northgate Market Center - San Bernardino-South Coast County, 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					
Regional Shopping Center	0.34618	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.7271	40.7271	7.8000e-004	7.5000e-004	40.9691
<b>Total</b>		<b>3.7300e-003</b>	<b>0.0339</b>	<b>0.0285</b>	<b>2.0000e-004</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>		<b>40.7271</b>	<b>40.7271</b>	<b>7.8000e-004</b>	<b>7.5000e-004</b>	<b>40.9691</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
Unmitigated	1.2721	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133

Northgate Market Center - San Bernardino-South Coast County, Winter

**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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
<b>Total</b>	<b>1.2721</b>	<b>5.0000e-005</b>	<b>5.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>		<b>0.0133</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005		0.0133
<b>Total</b>	<b>1.2721</b>	<b>5.0000e-005</b>	<b>5.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>		<b>0.0133</b>

**7.0 Water Detail**

Northgate Market Center - San Bernardino-South Coast County, Winter

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Northgate Market Center - San Bernardino-South Coast County, Annual

**Northgate Market Center**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	56.92	1000sqft	1.31	56,917.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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



Northgate Market Center - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - The Project as a single shopping center (ITE 820)

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - 16940 cubic yards / 20 cubic yards per truck = 897 trucks

Grading - 7 acres of pavement @ 1.5 foot depth = 16940 cubic yards removed

Vehicle Trips - Trip rates provided by client & trip lengths from SANDAG Brief Guide of Vehicular Traffic Generation Rates

Construction Off-road Equipment Mitigation - Clean Paved Road percentage from SCAQMD's Table XI-C, Mitigation Measures

## Northgate Market Center - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	10.00	63.00
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	AcresOfGrading	5.00	1.00
tblGrading	MaterialExported	0.00	16,940.00
tblLandUse	LandUseSquareFeet	56,920.00	56,917.00
tblTripsAndVMT	HaulingTripNumber	2,118.00	847.00
tblVehicleTrips	CC_TL	8.40	3.20
tblVehicleTrips	CNW_TL	6.90	2.60
tblVehicleTrips	CW_TL	16.60	6.30
tblVehicleTrips	ST_TR	49.97	73.00
tblVehicleTrips	SU_TR	25.24	41.99
tblVehicleTrips	WD_TR	42.70	59.75

## 2.0 Emissions Summary

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Northgate Market Center - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2021	10-31-2021	0.6395	0.6395
2	11-1-2021	1-31-2022	0.5223	0.5223
3	2-1-2022	4-30-2022	0.4599	0.4599
4	5-1-2022	7-31-2022	0.0933	0.0933
		Highest	0.6395	0.6395

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	0.2321	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003
Energy	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	235.7876	235.7876	9.5900e-003	2.0800e-003	236.6471
Mobile	0.6847	4.5882	4.9411	0.0181	1.0560	0.0106	1.0666	0.2830	9.8900e-003	0.2929	0.0000	1,688.494 2	1,688.494 2	0.1262	0.0000	1,691.650 1
Waste						0.0000	0.0000		0.0000	0.0000	12.1328	0.0000	12.1328	0.7170	0.0000	30.0584
Water						0.0000	0.0000		0.0000	0.0000	1.3376	26.6396	27.9772	0.1385	3.4700e-003	32.4738
<b>Total</b>	<b>0.9175</b>	<b>4.5944</b>	<b>4.9470</b>	<b>0.0181</b>	<b>1.0560</b>	<b>0.0111</b>	<b>1.0671</b>	<b>0.2830</b>	<b>0.0104</b>	<b>0.2934</b>	<b>13.4704</b>	<b>1,950.922 8</b>	<b>1,964.393 2</b>	<b>0.9913</b>	<b>5.5500e-003</b>	<b>1,990.831 0</b>

Northgate Market Center - San Bernardino-South Coast County, Annual

**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	0.2321	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003
Energy	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	235.7876	235.7876	9.5900e-003	2.0800e-003	236.6471
Mobile	0.6847	4.5882	4.9411	0.0181	1.0560	0.0106	1.0666	0.2830	9.8900e-003	0.2929	0.0000	1,688.4942	1,688.4942	0.1262	0.0000	1,691.6501
Waste						0.0000	0.0000		0.0000	0.0000	12.1328	0.0000	12.1328	0.7170	0.0000	30.0584
Water						0.0000	0.0000		0.0000	0.0000	1.3376	26.6396	27.9772	0.1385	3.4700e-003	32.4738
<b>Total</b>	<b>0.9175</b>	<b>4.5944</b>	<b>4.9470</b>	<b>0.0181</b>	<b>1.0560</b>	<b>0.0111</b>	<b>1.0671</b>	<b>0.2830</b>	<b>0.0104</b>	<b>0.2934</b>	<b>13.4704</b>	<b>1,950.9228</b>	<b>1,964.3932</b>	<b>0.9913</b>	<b>5.5500e-003</b>	<b>1,990.8310</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2021	8/15/2021	5	10	removal of existing asphalt
2	Grading	Grading	8/16/2021	11/15/2021	5	66	Includes excavation for buildings
3	Building Construction	Building Construction	11/16/2021	2/15/2022	5	66	Includes concrete & framing
4	Paving	Paving	2/16/2022	2/17/2022	5	2	
5	Architectural Coating	Architectural Coating	2/16/2022	5/13/2022	5	63	
6	Trenching	Trenching	2/18/2022	5/31/2022	5	73	Wet & dry utility lines

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 85,376; Non-Residential Outdoor: 28,459; 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
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	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Trenchers	1	6.00	78	0.50

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
Site Preparation	3	8.00	0.00	847.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0278	0.0000	0.0278	0.0147	0.0000	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0871	0.0378	9.0000e-005		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	7.5592	7.5592	2.4400e-003	0.0000	7.6203
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0871</b>	<b>0.0378</b>	<b>9.0000e-005</b>	<b>0.0278</b>	<b>3.8300e-003</b>	<b>0.0317</b>	<b>0.0147</b>	<b>3.5200e-003</b>	<b>0.0182</b>	<b>0.0000</b>	<b>7.5592</b>	<b>7.5592</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6203</b>



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**3.2 Site Preparation - 2021**

**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	2.5600e-003	0.0989	0.0159	3.3000e-004	7.2900e-003	2.7000e-004	7.5600e-003	2.0000e-003	2.6000e-004	2.2600e-003	0.0000	31.3542	31.3542	1.7600e-003	0.0000	31.3983
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	1.8000e-004	1.4000e-004	1.4300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3640	0.3640	1.0000e-005	0.0000	0.3642
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0990</b>	<b>0.0173</b>	<b>3.3000e-004</b>	<b>7.7300e-003</b>	<b>2.7000e-004</b>	<b>8.0000e-003</b>	<b>2.1200e-003</b>	<b>2.6000e-004</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>31.7182</b>	<b>31.7182</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>31.7625</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					0.0109	0.0000	0.0109	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0871	0.0378	9.0000e-005		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	7.5592	7.5592	2.4400e-003	0.0000	7.6203
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0871</b>	<b>0.0378</b>	<b>9.0000e-005</b>	<b>0.0109</b>	<b>3.8300e-003</b>	<b>0.0147</b>	<b>5.7300e-003</b>	<b>3.5200e-003</b>	<b>9.2500e-003</b>	<b>0.0000</b>	<b>7.5592</b>	<b>7.5592</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6203</b>

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**3.2 Site Preparation - 2021**

**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	2.5600e-003	0.0989	0.0159	3.3000e-004	5.8600e-003	2.7000e-004	6.1400e-003	1.6500e-003	2.6000e-004	1.9200e-003	0.0000	31.3542	31.3542	1.7600e-003	0.0000	31.3983
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	1.8000e-004	1.4000e-004	1.4300e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3640	0.3640	1.0000e-005	0.0000	0.3642
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0990</b>	<b>0.0173</b>	<b>3.3000e-004</b>	<b>6.2000e-003</b>	<b>2.7000e-004</b>	<b>6.4800e-003</b>	<b>1.7400e-003</b>	<b>2.6000e-004</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>31.7182</b>	<b>31.7182</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>31.7625</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1498	0.0000	0.1498	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4729	0.2089	4.6000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	40.8661	40.8661	0.0132	0.0000	41.1965
<b>Total</b>	<b>0.0425</b>	<b>0.4729</b>	<b>0.2089</b>	<b>4.6000e-004</b>	<b>0.1498</b>	<b>0.0211</b>	<b>0.1709</b>	<b>0.0820</b>	<b>0.0194</b>	<b>0.1014</b>	<b>0.0000</b>	<b>40.8661</b>	<b>40.8661</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.1965</b>

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**3.3 Grading - 2021**

**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	1.2200e-003	9.2000e-004	9.4100e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.4021	2.4021	7.0000e-005	0.0000	2.4038
<b>Total</b>	<b>1.2200e-003</b>	<b>9.2000e-004</b>	<b>9.4100e-003</b>	<b>3.0000e-005</b>	<b>2.8900e-003</b>	<b>2.0000e-005</b>	<b>2.9100e-003</b>	<b>7.7000e-004</b>	<b>2.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>2.4021</b>	<b>2.4021</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.4038</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					0.0584	0.0000	0.0584	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4729	0.2089	4.6000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	40.8660	40.8660	0.0132	0.0000	41.1965
<b>Total</b>	<b>0.0425</b>	<b>0.4729</b>	<b>0.2089</b>	<b>4.6000e-004</b>	<b>0.0584</b>	<b>0.0211</b>	<b>0.0795</b>	<b>0.0320</b>	<b>0.0194</b>	<b>0.0514</b>	<b>0.0000</b>	<b>40.8660</b>	<b>40.8660</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.1965</b>

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**3.3 Grading - 2021**

**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	1.2200e-003	9.2000e-004	9.4100e-003	3.0000e-005	2.2400e-003	2.0000e-005	2.2600e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	2.4021	2.4021	7.0000e-005	0.0000	2.4038
<b>Total</b>	<b>1.2200e-003</b>	<b>9.2000e-004</b>	<b>9.4100e-003</b>	<b>3.0000e-005</b>	<b>2.2400e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.4021</b>	<b>2.4021</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.4038</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0308	0.2318	0.2193	3.7000e-004		0.0116	0.0116		0.0112	0.0112	0.0000	30.8631	30.8631	5.5100e-003	0.0000	31.0008
<b>Total</b>	<b>0.0308</b>	<b>0.2318</b>	<b>0.2193</b>	<b>3.7000e-004</b>		<b>0.0116</b>	<b>0.0116</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>30.8631</b>	<b>30.8631</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>31.0008</b>

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**3.4 Building Construction - 2021**

**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	4.1000e-004	0.0149	3.0300e-003	4.0000e-005	9.6000e-004	3.0000e-005	9.9000e-004	2.8000e-004	2.0000e-005	3.0000e-004	0.0000	3.8856	3.8856	2.6000e-004	0.0000	3.8922
Worker	1.4100e-003	1.0600e-003	0.0109	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7843	2.7843	8.0000e-005	0.0000	2.7862
<b>Total</b>	<b>1.8200e-003</b>	<b>0.0159</b>	<b>0.0139</b>	<b>7.0000e-005</b>	<b>4.3200e-003</b>	<b>5.0000e-005</b>	<b>4.3700e-003</b>	<b>1.1700e-003</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>6.6699</b>	<b>6.6699</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>6.6784</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	0.0308	0.2318	0.2193	3.7000e-004		0.0116	0.0116		0.0112	0.0112	0.0000	30.8631	30.8631	5.5100e-003	0.0000	31.0008
<b>Total</b>	<b>0.0308</b>	<b>0.2318</b>	<b>0.2193</b>	<b>3.7000e-004</b>		<b>0.0116</b>	<b>0.0116</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>30.8631</b>	<b>30.8631</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>31.0008</b>

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**3.4 Building Construction - 2021**

**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	4.1000e-004	0.0149	3.0300e-003	4.0000e-005	7.9000e-004	3.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	3.8856	3.8856	2.6000e-004	0.0000	3.8922
Worker	1.4100e-003	1.0600e-003	0.0109	3.0000e-005	2.6000e-003	2.0000e-005	2.6200e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.7843	2.7843	8.0000e-005	0.0000	2.7862
<b>Total</b>	<b>1.8200e-003</b>	<b>0.0159</b>	<b>0.0139</b>	<b>7.0000e-005</b>	<b>3.3900e-003</b>	<b>5.0000e-005</b>	<b>3.4300e-003</b>	<b>9.4000e-004</b>	<b>4.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>6.6699</b>	<b>6.6699</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>6.6784</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2001	0.2036	3.5000e-004		9.4200e-003	9.4200e-003		9.1000e-003	9.1000e-003	0.0000	29.0523	29.0523	5.0600e-003	0.0000	29.1788
<b>Total</b>	<b>0.0264</b>	<b>0.2001</b>	<b>0.2036</b>	<b>3.5000e-004</b>		<b>9.4200e-003</b>	<b>9.4200e-003</b>		<b>9.1000e-003</b>	<b>9.1000e-003</b>	<b>0.0000</b>	<b>29.0523</b>	<b>29.0523</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>29.1788</b>

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**3.4 Building Construction - 2022**

**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	3.6000e-004	0.0133	2.6400e-003	4.0000e-005	9.1000e-004	2.0000e-005	9.3000e-004	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	3.6273	3.6273	2.4000e-004	0.0000	3.6332
Worker	1.2400e-003	9.0000e-004	9.4100e-003	3.0000e-005	3.1600e-003	2.0000e-005	3.1800e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.5261	2.5261	7.0000e-005	0.0000	2.5277
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0142</b>	<b>0.0121</b>	<b>7.0000e-005</b>	<b>4.0700e-003</b>	<b>4.0000e-005</b>	<b>4.1100e-003</b>	<b>1.1000e-003</b>	<b>4.0000e-005</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>6.1534</b>	<b>6.1534</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>6.1610</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	0.0264	0.2001	0.2036	3.5000e-004		9.4200e-003	9.4200e-003		9.1000e-003	9.1000e-003	0.0000	29.0523	29.0523	5.0600e-003	0.0000	29.1788
<b>Total</b>	<b>0.0264</b>	<b>0.2001</b>	<b>0.2036</b>	<b>3.5000e-004</b>		<b>9.4200e-003</b>	<b>9.4200e-003</b>		<b>9.1000e-003</b>	<b>9.1000e-003</b>	<b>0.0000</b>	<b>29.0523</b>	<b>29.0523</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>29.1788</b>

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**3.4 Building Construction - 2022**

**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	3.6000e-004	0.0133	2.6400e-003	4.0000e-005	7.4000e-004	2.0000e-005	7.6000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	3.6273	3.6273	2.4000e-004	0.0000	3.6332
Worker	1.2400e-003	9.0000e-004	9.4100e-003	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.5261	2.5261	7.0000e-005	0.0000	2.5277
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0142</b>	<b>0.0121</b>	<b>7.0000e-005</b>	<b>3.1900e-003</b>	<b>4.0000e-005</b>	<b>3.2300e-003</b>	<b>8.8000e-004</b>	<b>4.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>6.1534</b>	<b>6.1534</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>6.1610</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9000e-004	6.7700e-003	8.8100e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.2000e-004	3.2000e-004	0.0000	1.1770	1.1770	3.7000e-004	0.0000	1.1863
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>6.9000e-004</b>	<b>6.7700e-003</b>	<b>8.8100e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1770</b>	<b>1.1770</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1863</b>



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**3.5 Paving - 2022**

**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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1140	0.1140	0.0000	0.0000	0.1141
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1140</b>	<b>0.1140</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1141</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	6.9000e-004	6.7700e-003	8.8100e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.2000e-004	3.2000e-004	0.0000	1.1770	1.1770	3.7000e-004	0.0000	1.1863
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>6.9000e-004</b>	<b>6.7700e-003</b>	<b>8.8100e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1770</b>	<b>1.1770</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1863</b>

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**3.5 Paving - 2022**

**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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1140	0.1140	0.0000	0.0000	0.1141
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1140</b>	<b>0.1140</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1141</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2638					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4400e-003	0.0444	0.0571	9.0000e-005		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	8.0428	8.0428	5.2000e-004	0.0000	8.0558
<b>Total</b>	<b>0.2703</b>	<b>0.0444</b>	<b>0.0571</b>	<b>9.0000e-005</b>		<b>2.5700e-003</b>	<b>2.5700e-003</b>		<b>2.5700e-003</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>8.0428</b>	<b>8.0428</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>8.0558</b>

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**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.9000e-004	4.1200e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.1052	1.1052	3.0000e-005	0.0000	1.1059
<b>Total</b>	<b>5.4000e-004</b>	<b>3.9000e-004</b>	<b>4.1200e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1059</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	0.2638					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4400e-003	0.0444	0.0571	9.0000e-005		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	8.0427	8.0427	5.2000e-004	0.0000	8.0558
<b>Total</b>	<b>0.2703</b>	<b>0.0444</b>	<b>0.0571</b>	<b>9.0000e-005</b>		<b>2.5700e-003</b>	<b>2.5700e-003</b>		<b>2.5700e-003</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>8.0427</b>	<b>8.0427</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>8.0558</b>

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**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.9000e-004	4.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.1052	1.1052	3.0000e-005	0.0000	1.1059
<b>Total</b>	<b>5.4000e-004</b>	<b>3.9000e-004</b>	<b>4.1200e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1059</b>

**3.7 Trenching - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1384	0.1324	1.8000e-004		9.0200e-003	9.0200e-003		8.3000e-003	8.3000e-003	0.0000	15.6005	15.6005	5.0500e-003	0.0000	15.7267
<b>Total</b>	<b>0.0145</b>	<b>0.1384</b>	<b>0.1324</b>	<b>1.8000e-004</b>		<b>9.0200e-003</b>	<b>9.0200e-003</b>		<b>8.3000e-003</b>	<b>8.3000e-003</b>	<b>0.0000</b>	<b>15.6005</b>	<b>15.6005</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>15.7267</b>

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**3.7 Trenching - 2022**

**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	7.9000e-004	5.7000e-004	5.9600e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6007	1.6007	4.0000e-005	0.0000	1.6018
<b>Total</b>	<b>7.9000e-004</b>	<b>5.7000e-004</b>	<b>5.9600e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0100e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6007</b>	<b>1.6007</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6018</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	0.0145	0.1384	0.1324	1.8000e-004		9.0200e-003	9.0200e-003		8.3000e-003	8.3000e-003	0.0000	15.6005	15.6005	5.0500e-003	0.0000	15.7267
<b>Total</b>	<b>0.0145</b>	<b>0.1384</b>	<b>0.1324</b>	<b>1.8000e-004</b>		<b>9.0200e-003</b>	<b>9.0200e-003</b>		<b>8.3000e-003</b>	<b>8.3000e-003</b>	<b>0.0000</b>	<b>15.6005</b>	<b>15.6005</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>15.7267</b>

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**3.7 Trenching - 2022**

**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	7.9000e-004	5.7000e-004	5.9600e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5600e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.6007	1.6007	4.0000e-005	0.0000	1.6018
<b>Total</b>	<b>7.9000e-004</b>	<b>5.7000e-004</b>	<b>5.9600e-003</b>	<b>2.0000e-005</b>	<b>1.5500e-003</b>	<b>1.0000e-005</b>	<b>1.5600e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.6007</b>	<b>1.6007</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6018</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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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	0.6847	4.5882	4.9411	0.0181	1.0560	0.0106	1.0666	0.2830	9.8900e-003	0.2929	0.0000	1,688.4942	1,688.4942	0.1262	0.0000	1,691.6501
Unmitigated	0.6847	4.5882	4.9411	0.0181	1.0560	0.0106	1.0666	0.2830	9.8900e-003	0.2929	0.0000	1,688.4942	1,688.4942	0.1262	0.0000	1,691.6501

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,400.97	4,155.16	2390.07	2,773,166	2,773,166
Total	3,400.97	4,155.16	2,390.07	2,773,166	2,773,166

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
Regional Shopping Center	6.30	3.20	2.60	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	229.0447	229.0447	9.4600e-003	1.9600e-003	229.8642
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	229.0447	229.0447	9.4600e-003	1.9600e-003	229.8642
NaturalGas Mitigated	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7428	6.7428	1.3000e-004	1.2000e-004	6.7829
NaturalGas Unmitigated	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7428	6.7428	1.3000e-004	1.2000e-004	6.7829

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					
Regional Shopping Center	126356	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7428	6.7428	1.3000e-004	1.2000e-004	6.7829
<b>Total</b>		<b>6.8000e-004</b>	<b>6.1900e-003</b>	<b>5.2000e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.7428</b>	<b>6.7428</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.7829</b>



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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	126356	6.8000e-004	6.1900e-003	5.2000e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7428	6.7428	1.3000e-004	1.2000e-004	6.7829
<b>Total</b>		<b>6.8000e-004</b>	<b>6.1900e-003</b>	<b>5.2000e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.7428</b>	<b>6.7428</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.7829</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	718862	229.0447	9.4600e-003	1.9600e-003	229.8642
<b>Total</b>		<b>229.0447</b>	<b>9.4600e-003</b>	<b>1.9600e-003</b>	<b>229.8642</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			
Regional Shopping Center	718862	229.0447	9.4600e-003	1.9600e-003	229.8642
<b>Total</b>		<b>229.0447</b>	<b>9.4600e-003</b>	<b>1.9600e-003</b>	<b>229.8642</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2321	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003
Unmitigated	0.2321	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003

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**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	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003
<b>Total</b>	<b>0.2321</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5100e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4100e-003	1.4100e-003	0.0000	0.0000	1.5100e-003
<b>Total</b>	<b>0.2321</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5100e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.9772	0.1385	3.4700e-003	32.4738
Unmitigated	27.9772	0.1385	3.4700e-003	32.4738

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	4.21621 / 2.58413	27.9772	0.1385	3.4700e-003	32.4738
<b>Total</b>		<b>27.9772</b>	<b>0.1385</b>	<b>3.4700e-003</b>	<b>32.4738</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			
Regional Shopping Center	4.21621 / 2.58413	27.9772	0.1385	3.4700e-003	32.4738
<b>Total</b>		<b>27.9772</b>	<b>0.1385</b>	<b>3.4700e-003</b>	<b>32.4738</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.1328	0.7170	0.0000	30.0584
Unmitigated	12.1328	0.7170	0.0000	30.0584

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	59.77	12.1328	0.7170	0.0000	30.0584
<b>Total</b>		<b>12.1328</b>	<b>0.7170</b>	<b>0.0000</b>	<b>30.0584</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	59.77	12.1328	0.7170	0.0000	30.0584
<b>Total</b>		<b>12.1328</b>	<b>0.7170</b>	<b>0.0000</b>	<b>30.0584</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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