

401-409 Hawthorne Street - South Coast AQMD Air District, Annual

**401-409 Hawthorne Street**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	25.00	Dwelling Unit	0.43	18,750.00	72

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	12			<b>Operational Year</b>	2020
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1115.33	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Project Site Area: 18,750 sq. ft., Demolish: 1,323 sq. ft. duplex, 360 sq. ft. garage 799 sq. ft. SFR and 240 garage. Construct: new 5-story, 31,286 sq. ft., 23 unit multi-family residence with two-levels of subterranean parking. Grading: 7,545 CY (all export).

Land Use - Dwelling Units: 2 existing; 23 new (25 total dwelling units).

Construction Phase - Grading will occur over a one week period.

Grading -

Demolition -

Energy Use -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	7.00
tblConstructionPhase	PhaseEndDate	12/18/2019	12/25/2019
tblGrading	MaterialExported	0.00	7,545.00
tblLandUse	LandUseSquareFeet	25,000.00	18,750.00
tblLandUse	LotAcreage	0.66	0.43

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-2-2019	3-1-2020	0.4901	0.4901
2	3-2-2020	6-1-2020	0.3239	0.3239
		Highest	0.4901	0.4901

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	0.1634	9.4800e-003	0.4176	4.2000e-004		0.0253	0.0253		0.0253	0.0253	2.6555	5.5241	8.1795	8.3300e-003	1.8000e-004	8.4415
Energy	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	65.9148	65.9148	1.6100e-003	5.4000e-004	66.1173
Mobile	0.0559	0.3156	0.7678	2.6500e-003	0.2110	2.7000e-003	0.2137	0.0565	2.5300e-003	0.0591	0.0000	244.4136	244.4136	0.0125	0.0000	244.7254
Waste						0.0000	0.0000		0.0000	0.0000	2.3344	0.0000	2.3344	0.1380	0.0000	5.7834
Water						0.0000	0.0000		0.0000	0.0000	0.5168	16.5016	17.0184	0.0535	1.3400e-003	18.7559
<b>Total</b>	<b>0.2208</b>	<b>0.3377</b>	<b>1.1907</b>	<b>3.1500e-003</b>	<b>0.2110</b>	<b>0.0290</b>	<b>0.2400</b>	<b>0.0565</b>	<b>0.0288</b>	<b>0.0854</b>	<b>5.5066</b>	<b>332.3540</b>	<b>337.8606</b>	<b>0.2139</b>	<b>2.0600e-003</b>	<b>343.8235</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1634	9.4800e-003	0.4176	4.2000e-004		0.0253	0.0253		0.0253	0.0253	2.6555	5.5241	8.1795	8.3300e-003	1.8000e-004	8.4415
Energy	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	65.9148	65.9148	1.6100e-003	5.4000e-004	66.1173
Mobile	0.0559	0.3156	0.7678	2.6500e-003	0.2110	2.7000e-003	0.2137	0.0565	2.5300e-003	0.0591	0.0000	244.4136	244.4136	0.0125	0.0000	244.7254
Waste						0.0000	0.0000		0.0000	0.0000	2.3344	0.0000	2.3344	0.1380	0.0000	5.7834
Water						0.0000	0.0000		0.0000	0.0000	0.5168	16.5016	17.0184	0.0535	1.3400e-003	18.7559
<b>Total</b>	<b>0.2208</b>	<b>0.3377</b>	<b>1.1907</b>	<b>3.1500e-003</b>	<b>0.2110</b>	<b>0.0290</b>	<b>0.2400</b>	<b>0.0565</b>	<b>0.0288</b>	<b>0.0854</b>	<b>5.5066</b>	<b>332.3540</b>	<b>337.8606</b>	<b>0.2139</b>	<b>2.0600e-003</b>	<b>343.8235</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	Demolition	Demolition	12/2/2019	12/13/2019	5	10	
2	Site Preparation	Site Preparation	12/14/2019	12/16/2019	5	1	
3	Grading	Grading	12/17/2019	12/25/2019	5	7	
4	Building Construction	Building Construction	12/19/2019	5/6/2020	5	100	
5	Paving	Paving	5/7/2020	5/13/2020	5	5	
6	Architectural Coating	Architectural Coating	5/14/2020	5/20/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 37,969; Residential Outdoor: 12,656; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	12.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	943.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3400e-003	0.0000	1.3400e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
<b>Total</b>	<b>4.7700e-003</b>	<b>0.0430</b>	<b>0.0385</b>	<b>6.0000e-005</b>	<b>1.3400e-003</b>	<b>2.6900e-003</b>	<b>4.0300e-003</b>	<b>2.0000e-004</b>	<b>2.5600e-003</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>5.2601</b>	<b>5.2601</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>5.2852</b>



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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8000e-003	3.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4574	0.4574	3.0000e-005	0.0000	0.4582
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.0800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5097	0.5097	2.0000e-005	0.0000	0.5100
<b>Total</b>	<b>2.9000e-004</b>	<b>1.9900e-003</b>	<b>2.4300e-003</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.9671</b>	<b>0.9671</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9683</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3400e-003	0.0000	1.3400e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
<b>Total</b>	<b>4.7700e-003</b>	<b>0.0430</b>	<b>0.0385</b>	<b>6.0000e-005</b>	<b>1.3400e-003</b>	<b>2.6900e-003</b>	<b>4.0300e-003</b>	<b>2.0000e-004</b>	<b>2.5600e-003</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>5.2601</b>	<b>5.2601</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>5.2852</b>

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**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8000e-003	3.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4574	0.4574	3.0000e-005	0.0000	0.4582
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.0800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5097	0.5097	2.0000e-005	0.0000	0.5100
<b>Total</b>	<b>2.9000e-004</b>	<b>1.9900e-003</b>	<b>2.4300e-003</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.9671</b>	<b>0.9671</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9683</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.8000e-004</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>1.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0255
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0255</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0255</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.8000e-004</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>1.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0255
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0255</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0255</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0600e-003	0.0000	3.0600e-003	1.5100e-003	0.0000	1.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0301	0.0269	4.0000e-005		1.8800e-003	1.8800e-003		1.7900e-003	1.7900e-003	0.0000	3.6821	3.6821	7.0000e-004	0.0000	3.6996
<b>Total</b>	<b>3.3400e-003</b>	<b>0.0301</b>	<b>0.0269</b>	<b>4.0000e-005</b>	<b>3.0600e-003</b>	<b>1.8800e-003</b>	<b>4.9400e-003</b>	<b>1.5100e-003</b>	<b>1.7900e-003</b>	<b>3.3000e-003</b>	<b>0.0000</b>	<b>3.6821</b>	<b>3.6821</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>3.6996</b>

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**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9200e-003	0.1416	0.0272	3.7000e-004	8.1100e-003	5.1000e-004	8.6200e-003	2.2300e-003	4.9000e-004	2.7200e-003	0.0000	35.9455	35.9455	2.5200e-003	0.0000	36.0085
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	1.7000e-004	1.3000e-004	1.4600e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3568	0.3568	1.0000e-005	0.0000	0.3570
<b>Total</b>	<b>4.0900e-003</b>	<b>0.1418</b>	<b>0.0287</b>	<b>3.7000e-004</b>	<b>8.4900e-003</b>	<b>5.1000e-004</b>	<b>9.0100e-003</b>	<b>2.3300e-003</b>	<b>4.9000e-004</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>36.3022</b>	<b>36.3022</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>36.3655</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					3.0600e-003	0.0000	3.0600e-003	1.5100e-003	0.0000	1.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0301	0.0269	4.0000e-005		1.8800e-003	1.8800e-003		1.7900e-003	1.7900e-003	0.0000	3.6821	3.6821	7.0000e-004	0.0000	3.6996
<b>Total</b>	<b>3.3400e-003</b>	<b>0.0301</b>	<b>0.0269</b>	<b>4.0000e-005</b>	<b>3.0600e-003</b>	<b>1.8800e-003</b>	<b>4.9400e-003</b>	<b>1.5100e-003</b>	<b>1.7900e-003</b>	<b>3.3000e-003</b>	<b>0.0000</b>	<b>3.6821</b>	<b>3.6821</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>3.6996</b>

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**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9200e-003	0.1416	0.0272	3.7000e-004	8.1100e-003	5.1000e-004	8.6200e-003	2.2300e-003	4.9000e-004	2.7200e-003	0.0000	35.9455	35.9455	2.5200e-003	0.0000	36.0085
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	1.7000e-004	1.3000e-004	1.4600e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3568	0.3568	1.0000e-005	0.0000	0.3570
<b>Total</b>	<b>4.0900e-003</b>	<b>0.1418</b>	<b>0.0287</b>	<b>3.7000e-004</b>	<b>8.4900e-003</b>	<b>5.1000e-004</b>	<b>9.0100e-003</b>	<b>2.3300e-003</b>	<b>4.9000e-004</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>36.3022</b>	<b>36.3022</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>36.3655</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3100e-003	0.0442	0.0339	5.0000e-005		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	4.6035	4.6035	1.4600e-003	0.0000	4.6399
<b>Total</b>	<b>4.3100e-003</b>	<b>0.0442</b>	<b>0.0339</b>	<b>5.0000e-005</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>4.6035</b>	<b>4.6035</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.6399</b>

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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5700e-003	3.9000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3342	0.3342	2.0000e-005	0.0000	0.3348
Worker	3.9000e-004	3.1000e-004	3.3800e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8256	0.8256	3.0000e-005	0.0000	0.8263
<b>Total</b>	<b>4.4000e-004</b>	<b>1.8800e-003</b>	<b>3.7700e-003</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>2.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1599</b>	<b>1.1599</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.1611</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3100e-003	0.0442	0.0339	5.0000e-005		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	4.6035	4.6035	1.4600e-003	0.0000	4.6399
<b>Total</b>	<b>4.3100e-003</b>	<b>0.0442</b>	<b>0.0339</b>	<b>5.0000e-005</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>4.6035</b>	<b>4.6035</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.6399</b>

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**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5700e-003	3.9000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3342	0.3342	2.0000e-005	0.0000	0.3348
Worker	3.9000e-004	3.1000e-004	3.3800e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8256	0.8256	3.0000e-005	0.0000	0.8263
<b>Total</b>	<b>4.4000e-004</b>	<b>1.8800e-003</b>	<b>3.7700e-003</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>2.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1599</b>	<b>1.1599</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.1611</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0392	0.4028	0.3361	5.2000e-004		0.0238	0.0238		0.0219	0.0219	0.0000	45.5275	45.5275	0.0147	0.0000	45.8956
<b>Total</b>	<b>0.0392</b>	<b>0.4028</b>	<b>0.3361</b>	<b>5.2000e-004</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>45.5275</b>	<b>45.5275</b>	<b>0.0147</b>	<b>0.0000</b>	<b>45.8956</b>



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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0146	3.6100e-003	3.0000e-005	8.6000e-004	7.0000e-005	9.3000e-004	2.5000e-004	7.0000e-005	3.2000e-004	0.0000	3.3572	3.3572	2.2000e-004	0.0000	3.3628
Worker	3.6600e-003	2.8000e-003	0.0310	9.0000e-005	8.9900e-003	7.0000e-005	9.0500e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0890	8.0890	2.3000e-004	0.0000	8.0948
<b>Total</b>	<b>4.1200e-003</b>	<b>0.0174</b>	<b>0.0346</b>	<b>1.2000e-004</b>	<b>9.8500e-003</b>	<b>1.4000e-004</b>	<b>9.9800e-003</b>	<b>2.6400e-003</b>	<b>1.3000e-004</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>11.4462</b>	<b>11.4462</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.4575</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	0.0392	0.4028	0.3361	5.2000e-004		0.0238	0.0238		0.0219	0.0219	0.0000	45.5275	45.5275	0.0147	0.0000	45.8956
<b>Total</b>	<b>0.0392</b>	<b>0.4028</b>	<b>0.3361</b>	<b>5.2000e-004</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>45.5275</b>	<b>45.5275</b>	<b>0.0147</b>	<b>0.0000</b>	<b>45.8956</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0146	3.6100e-003	3.0000e-005	8.6000e-004	7.0000e-005	9.3000e-004	2.5000e-004	7.0000e-005	3.2000e-004	0.0000	3.3572	3.3572	2.2000e-004	0.0000	3.3628
Worker	3.6600e-003	2.8000e-003	0.0310	9.0000e-005	8.9900e-003	7.0000e-005	9.0500e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0890	8.0890	2.3000e-004	0.0000	8.0948
<b>Total</b>	<b>4.1200e-003</b>	<b>0.0174</b>	<b>0.0346</b>	<b>1.2000e-004</b>	<b>9.8500e-003</b>	<b>1.4000e-004</b>	<b>9.9800e-003</b>	<b>2.6400e-003</b>	<b>1.3000e-004</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>11.4462</b>	<b>11.4462</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.4575</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
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>1.9300e-003</b>	<b>0.0181</b>	<b>0.0178</b>	<b>3.0000e-005</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.3482</b>	<b>2.3482</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3653</b>

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**3.6 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4445	0.4445	1.0000e-005	0.0000	0.4448
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4445</b>	<b>0.4445</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4448</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	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
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>1.9300e-003</b>	<b>0.0181</b>	<b>0.0178</b>	<b>3.0000e-005</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.3482</b>	<b>2.3482</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3653</b>

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**3.6 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4445	0.4445	1.0000e-005	0.0000	0.4448
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4445</b>	<b>0.4445</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4448</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.0593</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>

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**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0988
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.8000e-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>0.0988</b>	<b>0.0988</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0988</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	0.0587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.0593</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>

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**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0988
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.8000e-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>0.0988</b>	<b>0.0988</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0988</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	0.0559	0.3156	0.7678	2.6500e-003	0.2110	2.7000e-003	0.2137	0.0565	2.5300e-003	0.0591	0.0000	244.4136	244.4136	0.0125	0.0000	244.7254
Unmitigated	0.0559	0.3156	0.7678	2.6500e-003	0.2110	2.7000e-003	0.2137	0.0565	2.5300e-003	0.0591	0.0000	244.4136	244.4136	0.0125	0.0000	244.7254

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	166.25	159.75	146.50	555,287	555,287
Total	166.25	159.75	146.50	555,287	555,287

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

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	51.2688	51.2688	1.3300e-003	2.8000e-004	51.3843
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	51.2688	51.2688	1.3300e-003	2.8000e-004	51.3843
NaturalGas Mitigated	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6459	14.6459	2.8000e-004	2.7000e-004	14.7330
NaturalGas Unmitigated	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6459	14.6459	2.8000e-004	2.7000e-004	14.7330

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	274455	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6459	14.6459	2.8000e-004	2.7000e-004	14.7330
<b>Total</b>		<b>1.4800e-003</b>	<b>0.0127</b>	<b>5.3800e-003</b>	<b>8.0000e-005</b>		<b>1.0200e-003</b>	<b>1.0200e-003</b>		<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>14.6459</b>	<b>14.6459</b>	<b>2.8000e-004</b>	<b>2.7000e-004</b>	<b>14.7330</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	274455	1.4800e-003	0.0127	5.3800e-003	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6459	14.6459	2.8000e-004	2.7000e-004	14.7330
<b>Total</b>		<b>1.4800e-003</b>	<b>0.0127</b>	<b>5.3800e-003</b>	<b>8.0000e-005</b>		<b>1.0200e-003</b>	<b>1.0200e-003</b>		<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>14.6459</b>	<b>14.6459</b>	<b>2.8000e-004</b>	<b>2.7000e-004</b>	<b>14.7330</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	101341	51.2688	1.3300e-003	2.8000e-004	51.3843
<b>Total</b>		<b>51.2688</b>	<b>1.3300e-003</b>	<b>2.8000e-004</b>	<b>51.3843</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	101341	51.2688	1.3300e-003	2.8000e-004	51.3843
<b>Total</b>		<b>51.2688</b>	<b>1.3300e-003</b>	<b>2.8000e-004</b>	<b>51.3843</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	0.1634	9.4800e-003	0.4176	4.2000e-004		0.0253	0.0253		0.0253	0.0253	2.6555	5.5241	8.1795	8.3300e-003	1.8000e-004	8.4415
Unmitigated	0.1634	9.4800e-003	0.4176	4.2000e-004		0.0253	0.0253		0.0253	0.0253	2.6555	5.5241	8.1795	8.3300e-003	1.8000e-004	8.4415

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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	5.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0678					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0819	6.4800e-003	0.1589	4.1000e-004		0.0239	0.0239		0.0239	0.0239	2.6555	5.1029	7.7584	7.9200e-003	1.8000e-004	8.0101
Landscaping	7.8800e-003	2.9900e-003	0.2587	1.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	0.4211	0.4211	4.1000e-004	0.0000	0.4314
<b>Total</b>	<b>0.1634</b>	<b>9.4700e-003</b>	<b>0.4176</b>	<b>4.2000e-004</b>		<b>0.0253</b>	<b>0.0253</b>		<b>0.0253</b>	<b>0.0253</b>	<b>2.6555</b>	<b>5.5241</b>	<b>8.1795</b>	<b>8.3300e-003</b>	<b>1.8000e-004</b>	<b>8.4415</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0678					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0819	6.4800e-003	0.1589	4.1000e-004		0.0239	0.0239		0.0239	0.0239	2.6555	5.1029	7.7584	7.9200e-003	1.8000e-004	8.0101
Landscaping	7.8800e-003	2.9900e-003	0.2587	1.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	0.4211	0.4211	4.1000e-004	0.0000	0.4314
<b>Total</b>	<b>0.1634</b>	<b>9.4700e-003</b>	<b>0.4176</b>	<b>4.2000e-004</b>		<b>0.0253</b>	<b>0.0253</b>		<b>0.0253</b>	<b>0.0253</b>	<b>2.6555</b>	<b>5.5241</b>	<b>8.1795</b>	<b>8.3300e-003</b>	<b>1.8000e-004</b>	<b>8.4415</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.0184	0.0535	1.3400e-003	18.7559
Unmitigated	17.0184	0.0535	1.3400e-003	18.7559

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.62885 / 1.02688	17.0184	0.0535	1.3400e-003	18.7559
<b>Total</b>		<b>17.0184</b>	<b>0.0535</b>	<b>1.3400e-003</b>	<b>18.7559</b>

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## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.62885 / 1.02688	17.0184	0.0535	1.3400e-003	18.7559
<b>Total</b>		<b>17.0184</b>	<b>0.0535</b>	<b>1.3400e-003</b>	<b>18.7559</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3344	0.1380	0.0000	5.7834
Unmitigated	2.3344	0.1380	0.0000	5.7834

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### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>2.3344</b>	<b>0.1380</b>	<b>0.0000</b>	<b>5.7834</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>2.3344</b>	<b>0.1380</b>	<b>0.0000</b>	<b>5.7834</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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