

**Greenhouse Gas Data**

**Existing Project Site**

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Annual

**The Villages at the Alhambra - Existing**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.15	1000sqft	0.23	10,145.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Existing office space to be repurposed.

Construction Phase - Existing only.

Vehicle Trips - Per traffic study.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	12/10/2018	11/26/2018
tblVehicleTrips	WD_TR	11.03	11.04



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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.0414	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004
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	55.9967	55.9967	2.1600e-003	5.4000e-004	56.2130
Mobile	0.0365	0.1775	0.4994	1.4000e-003	0.1041	1.7100e-003	0.1058	0.0279	1.6100e-003	0.0295	0.0000	128.6802	128.6802	8.0100e-003	0.0000	128.8805
Waste						0.0000	0.0000		0.0000	0.0000	1.9142	0.0000	1.9142	0.1131	0.0000	4.7424
Water						0.0000	0.0000		0.0000	0.0000	0.5718	11.3871	11.9589	0.0592	1.4800e-003	13.8810
<b>Total</b>	<b>0.0785</b>	<b>0.1837</b>	<b>0.5047</b>	<b>1.4400e-003</b>	<b>0.1041</b>	<b>2.1800e-003</b>	<b>0.1062</b>	<b>0.0279</b>	<b>2.0800e-003</b>	<b>0.0300</b>	<b>2.4860</b>	<b>196.0643</b>	<b>198.5503</b>	<b>0.1825</b>	<b>2.0200e-003</b>	<b>203.7170</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	0.0414	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004
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	55.9967	55.9967	2.1600e-003	5.4000e-004	56.2130
Mobile	0.0365	0.1775	0.4994	1.4000e-003	0.1041	1.7100e-003	0.1058	0.0279	1.6100e-003	0.0295	0.0000	128.6802	128.6802	8.0100e-003	0.0000	128.8805
Waste						0.0000	0.0000		0.0000	0.0000	1.9142	0.0000	1.9142	0.1131	0.0000	4.7424
Water						0.0000	0.0000		0.0000	0.0000	0.5718	11.3871	11.9589	0.0592	1.4800e-003	13.8810
<b>Total</b>	<b>0.0785</b>	<b>0.1837</b>	<b>0.5047</b>	<b>1.4400e-003</b>	<b>0.1041</b>	<b>2.1800e-003</b>	<b>0.1062</b>	<b>0.0279</b>	<b>2.0800e-003</b>	<b>0.0300</b>	<b>2.4860</b>	<b>196.0643</b>	<b>198.5503</b>	<b>0.1825</b>	<b>2.0200e-003</b>	<b>203.7170</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/27/2018	11/26/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Demolition - 2018**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0365	0.1775	0.4994	1.4000e-003	0.1041	1.7100e-003	0.1058	0.0279	1.6100e-003	0.0295	0.0000	128.6802	128.6802	8.0100e-003	0.0000	128.8805
Unmitigated	0.0365	0.1775	0.4994	1.4000e-003	0.1041	1.7100e-003	0.1058	0.0279	1.6100e-003	0.0295	0.0000	128.6802	128.6802	8.0100e-003	0.0000	128.8805

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	112.00	24.96	10.65	274,106	274,106
Total	112.00	24.96	10.65	274,106	274,106

**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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

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**5.0 Energy Detail**

Historical Energy Use: Y

**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	49.2620	49.2620	2.0300e-003	4.2000e-004	49.4382
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	49.2620	49.2620	2.0300e-003	4.2000e-004	49.4382
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	6.7347	6.7347	1.3000e-004	1.2000e-004	6.7747
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	6.7347	6.7347	1.3000e-004	1.2000e-004	6.7747

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	126204	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	6.7347	6.7347	1.3000e-004	1.2000e-004	6.7747
<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>6.7347</b>	<b>6.7347</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.7747</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	126204	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	6.7347	6.7347	1.3000e-004	1.2000e-004	6.7747
<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>6.7347</b>	<b>6.7347</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.7747</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	154610	49.2620	2.0300e-003	4.2000e-004	49.4382
<b>Total</b>		<b>49.2620</b>	<b>2.0300e-003</b>	<b>4.2000e-004</b>	<b>49.4382</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	154610	49.2620	2.0300e-003	4.2000e-004	49.4382
<b>Total</b>		<b>49.2620</b>	<b>2.0300e-003</b>	<b>4.2000e-004</b>	<b>49.4382</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0414	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004
Unmitigated	0.0414	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004

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	4.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004
<b>Total</b>	<b>0.0414</b>	<b>0.0000</b>	<b>1.3000e-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>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.7000e-004</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	4.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.7000e-004
<b>Total</b>	<b>0.0414</b>	<b>0.0000</b>	<b>1.3000e-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>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.7000e-004</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	11.9589	0.0592	1.4800e-003	13.8810
Unmitigated	11.9589	0.0592	1.4800e-003	13.8810

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.80222 / 1.10459	11.9589	0.0592	1.4800e-003	13.8810
<b>Total</b>		<b>11.9589</b>	<b>0.0592</b>	<b>1.4800e-003</b>	<b>13.8810</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			
General Office Building	1.80222 / 1.10459	11.9589	0.0592	1.4800e-003	13.8810
<b>Total</b>		<b>11.9589</b>	<b>0.0592</b>	<b>1.4800e-003</b>	<b>13.8810</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9142	0.1131	0.0000	4.7424
Unmitigated	1.9142	0.1131	0.0000	4.7424



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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	9.43	1.9142	0.1131	0.0000	4.7424
<b>Total</b>		<b>1.9142</b>	<b>0.1131</b>	<b>0.0000</b>	<b>4.7424</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	9.43	1.9142	0.1131	0.0000	4.7424
<b>Total</b>		<b>1.9142</b>	<b>0.1131</b>	<b>0.0000</b>	<b>4.7424</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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**Greenhouse Gas Data**  
**Project Construction and Operation**

## **Scenario 1**

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

**The Villages at the Alhambra - Scenario 1**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,547.00	Space	3.00	1,018,800.00	0
Apartments Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2028
<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**

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Construction area is approximately 21 acres.

Construction Phase - Estimated construction schedule.

Demolition - 104,242 sf demo required.

Grading - 120,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

## The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	563.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblGrading	AcresOfGrading	385.00	21.00
tblGrading	MaterialExported	0.00	120,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	22.92	3.00
tblLandUse	LotAcreage	14.34	7.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32
tblVehicleTrips	WD_TR	5.81	6.40

## 2.0 Emissions Summary

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The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.7110	8.3993	5.3255	0.0173	0.9995	0.2582	1.2578	0.3909	0.2389	0.6298	0.0000	1,599.2403	1,599.2403	0.2388	0.0000	1,605.2091
2021	1.0309	6.4021	9.0232	0.0298	1.9348	0.1465	2.0813	0.5192	0.1376	0.6568	0.0000	2,741.3049	2,741.3049	0.1734	0.0000	2,745.6410
2022	5.3868	6.3215	9.5585	0.0317	2.1318	0.1456	2.2773	0.5715	0.1369	0.7083	0.0000	2,910.8956	2,910.8956	0.1864	0.0000	2,915.5567
<b>Maximum</b>	<b>5.3868</b>	<b>8.3993</b>	<b>9.5585</b>	<b>0.0317</b>	<b>2.1318</b>	<b>0.2582</b>	<b>2.2773</b>	<b>0.5715</b>	<b>0.2389</b>	<b>0.7083</b>	<b>0.0000</b>	<b>2,910.8956</b>	<b>2,910.8956</b>	<b>0.2388</b>	<b>0.0000</b>	<b>2,915.5567</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.7110	8.3993	5.3255	0.0173	0.9995	0.2582	1.2578	0.3909	0.2389	0.6298	0.0000	1,599.2396	1,599.2396	0.2388	0.0000	1,605.2084
2021	1.0309	6.4021	9.0232	0.0298	1.9348	0.1465	2.0813	0.5192	0.1376	0.6568	0.0000	2,741.3046	2,741.3046	0.1734	0.0000	2,745.6407
2022	5.3868	6.3215	9.5585	0.0317	2.1318	0.1456	2.2773	0.5715	0.1369	0.7083	0.0000	2,910.8952	2,910.8952	0.1864	0.0000	2,915.5562
<b>Maximum</b>	<b>5.3868</b>	<b>8.3993</b>	<b>9.5585</b>	<b>0.0317</b>	<b>2.1318</b>	<b>0.2582</b>	<b>2.2773</b>	<b>0.5715</b>	<b>0.2389</b>	<b>0.7083</b>	<b>0.0000</b>	<b>2,910.8952</b>	<b>2,910.8952</b>	<b>0.2388</b>	<b>0.0000</b>	<b>2,915.5562</b>



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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.2610	1.2610
2	4-1-2020	6-30-2020	2.7030	2.7030
3	7-1-2020	9-30-2020	2.7489	2.7489
4	10-1-2020	12-31-2020	2.3162	2.3162
5	1-1-2021	3-31-2021	1.8298	1.8298
6	4-1-2021	6-30-2021	1.8197	1.8197
7	7-1-2021	9-30-2021	1.8397	1.8397
8	10-1-2021	12-31-2021	1.8704	1.8704
9	1-1-2022	3-31-2022	1.6969	1.6969
10	4-1-2022	6-30-2022	2.3441	2.3441
11	7-1-2022	9-30-2022	3.6542	3.6542
		Highest	3.6542	3.6542

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

**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	9.2099	0.4014	17.7085	0.0178		1.0739	1.0739		1.0739	1.0739	112.6984	234.5040	347.2024	0.3534	7.6500e-003	358.3161
Energy	0.0872	0.7448	0.3169	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	4,296.3661	4,296.3661	0.1583	0.0451	4,313.7764
Mobile	1.3538	6.8483	18.2707	0.0808	7.8219	0.0564	7.8783	2.0959	0.0524	2.1483	0.0000	7,494.3885	7,494.3885	0.3255	0.0000	7,502.5257
Waste						0.0000	0.0000		0.0000	0.0000	99.0718	0.0000	99.0718	5.8550	0.0000	245.4461
Water						0.0000	0.0000		0.0000	0.0000	21.9313	441.0694	463.0007	2.2708	0.0570	536.7423
<b>Total</b>	<b>10.6509</b>	<b>7.9944</b>	<b>36.2961</b>	<b>0.1033</b>	<b>7.8219</b>	<b>1.1905</b>	<b>9.0124</b>	<b>2.0959</b>	<b>1.1865</b>	<b>3.2824</b>	<b>233.7015</b>	<b>12,466.3280</b>	<b>12,700.0295</b>	<b>8.9629</b>	<b>0.1098</b>	<b>12,956.8067</b>

The Villages at the Alhambra - Scenario 1 - Los Angeles-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	5.7579	0.3242	11.0480	1.8400e-003		0.0768	0.0768		0.0768	0.0768	0.0000	247.2433	247.2433	0.0217	4.2000e-003	249.0380
Energy	0.0872	0.7448	0.3169	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	4,040.9407	4,040.9407	0.1478	0.0430	4,057.4372
Mobile	1.1557	5.8240	13.6432	0.0579	5.4753	0.0411	5.5164	1.4671	0.0381	1.5053	0.0000	5,377.4689	5,377.4689	0.2421	0.0000	5,383.5222
Waste						0.0000	0.0000		0.0000	0.0000	24.7679	0.0000	24.7679	1.4637	0.0000	61.3615
Water						0.0000	0.0000		0.0000	0.0000	17.5450	352.8556	370.4006	1.8166	0.0456	429.3938
<b>Total</b>	<b>7.0007</b>	<b>6.8930</b>	<b>25.0082</b>	<b>0.0645</b>	<b>5.4753</b>	<b>0.1781</b>	<b>5.6534</b>	<b>1.4671</b>	<b>0.1751</b>	<b>1.6423</b>	<b>42.3130</b>	<b>10,018.5083</b>	<b>10,060.8213</b>	<b>3.6919</b>	<b>0.0927</b>	<b>10,180.7527</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>34.27</b>	<b>13.78</b>	<b>31.10</b>	<b>37.56</b>	<b>30.00</b>	<b>85.04</b>	<b>37.27</b>	<b>30.00</b>	<b>85.24</b>	<b>49.97</b>	<b>81.89</b>	<b>19.64</b>	<b>20.78</b>	<b>58.81</b>	<b>15.52</b>	<b>21.43</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	4/1/2020	5	66	
2	Grading	Grading	4/2/2020	11/3/2020	5	154	
3	Building Construction	Building Construction	11/4/2020	12/30/2022	5	563	
4	Architectural Coating	Architectural Coating	5/31/2022	12/30/2022	5	154	
5	Paving	Paving	11/1/2022	12/30/2022	5	44	

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

**Acres of Grading (Grading Phase): 21**

**Acres of Paving: 3**

**Residential Indoor: 2,749,201; Residential Outdoor: 916,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 61,128 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	474.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,192.00	280.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0513	0.0000	0.0513	7.7700e-003	0.0000	7.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1093	1.0956	0.7179	1.2800e-003		0.0547	0.0547		0.0509	0.0509	0.0000	112.1954	112.1954	0.0317	0.0000	112.9872
<b>Total</b>	<b>0.1093</b>	<b>1.0956</b>	<b>0.7179</b>	<b>1.2800e-003</b>	<b>0.0513</b>	<b>0.0547</b>	<b>0.1061</b>	<b>7.7700e-003</b>	<b>0.0509</b>	<b>0.0587</b>	<b>0.0000</b>	<b>112.1954</b>	<b>112.1954</b>	<b>0.0317</b>	<b>0.0000</b>	<b>112.9872</b>

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**3.2 Demolition - 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	2.0900e-003	0.0704	0.0155	1.9000e-004	4.0700e-003	2.2000e-004	4.2900e-003	1.1200e-003	2.1000e-004	1.3300e-003	0.0000	18.2675	18.2675	1.2700e-003	0.0000	18.2994
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	2.2900e-003	1.8400e-003	0.0204	6.0000e-005	5.4200e-003	5.0000e-005	5.4700e-003	1.4400e-003	4.0000e-005	1.4800e-003	0.0000	5.0557	5.0557	1.6000e-004	0.0000	5.0597
<b>Total</b>	<b>4.3800e-003</b>	<b>0.0722</b>	<b>0.0359</b>	<b>2.5000e-004</b>	<b>9.4900e-003</b>	<b>2.7000e-004</b>	<b>9.7600e-003</b>	<b>2.5600e-003</b>	<b>2.5000e-004</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>23.3232</b>	<b>23.3232</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>23.3590</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					0.0513	0.0000	0.0513	7.7700e-003	0.0000	7.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1093	1.0956	0.7179	1.2800e-003		0.0547	0.0547		0.0509	0.0509	0.0000	112.1953	112.1953	0.0317	0.0000	112.9871
<b>Total</b>	<b>0.1093</b>	<b>1.0956</b>	<b>0.7179</b>	<b>1.2800e-003</b>	<b>0.0513</b>	<b>0.0547</b>	<b>0.1061</b>	<b>7.7700e-003</b>	<b>0.0509</b>	<b>0.0587</b>	<b>0.0000</b>	<b>112.1953</b>	<b>112.1953</b>	<b>0.0317</b>	<b>0.0000</b>	<b>112.9871</b>

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**3.2 Demolition - 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	2.0900e-003	0.0704	0.0155	1.9000e-004	4.0700e-003	2.2000e-004	4.2900e-003	1.1200e-003	2.1000e-004	1.3300e-003	0.0000	18.2675	18.2675	1.2700e-003	0.0000	18.2994
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	2.2900e-003	1.8400e-003	0.0204	6.0000e-005	5.4200e-003	5.0000e-005	5.4700e-003	1.4400e-003	4.0000e-005	1.4800e-003	0.0000	5.0557	5.0557	1.6000e-004	0.0000	5.0597
<b>Total</b>	<b>4.3800e-003</b>	<b>0.0722</b>	<b>0.0359</b>	<b>2.5000e-004</b>	<b>9.4900e-003</b>	<b>2.7000e-004</b>	<b>9.7600e-003</b>	<b>2.5600e-003</b>	<b>2.5000e-004</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>23.3232</b>	<b>23.3232</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>23.3590</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4816	0.0000	0.4816	0.2571	0.0000	0.2571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3427	3.8652	2.4608	4.7700e-003		0.1674	0.1674		0.1540	0.1540	0.0000	419.5291	419.5291	0.1357	0.0000	422.9212
<b>Total</b>	<b>0.3427</b>	<b>3.8652</b>	<b>2.4608</b>	<b>4.7700e-003</b>	<b>0.4816</b>	<b>0.1674</b>	<b>0.6490</b>	<b>0.2571</b>	<b>0.1540</b>	<b>0.4111</b>	<b>0.0000</b>	<b>419.5291</b>	<b>419.5291</b>	<b>0.1357</b>	<b>0.0000</b>	<b>422.9212</b>



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**3.3 Grading - 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	0.0662	2.2273	0.4909	5.8800e-003	0.1289	6.9300e-003	0.1358	0.0354	6.6300e-003	0.0420	0.0000	578.0867	578.0867	0.0403	0.0000	579.0933
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	7.1100e-003	5.7300e-003	0.0634	1.7000e-004	0.0169	1.4000e-004	0.0170	4.4800e-003	1.3000e-004	4.6100e-003	0.0000	15.7288	15.7288	5.0000e-004	0.0000	15.7412
<b>Total</b>	<b>0.0733</b>	<b>2.2330</b>	<b>0.5543</b>	<b>6.0500e-003</b>	<b>0.1458</b>	<b>7.0700e-003</b>	<b>0.1528</b>	<b>0.0399</b>	<b>6.7600e-003</b>	<b>0.0466</b>	<b>0.0000</b>	<b>593.8155</b>	<b>593.8155</b>	<b>0.0408</b>	<b>0.0000</b>	<b>594.8345</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					0.4816	0.0000	0.4816	0.2571	0.0000	0.2571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3427	3.8652	2.4608	4.7700e-003		0.1674	0.1674		0.1540	0.1540	0.0000	419.5286	419.5286	0.1357	0.0000	422.9207
<b>Total</b>	<b>0.3427</b>	<b>3.8652</b>	<b>2.4608</b>	<b>4.7700e-003</b>	<b>0.4816</b>	<b>0.1674</b>	<b>0.6490</b>	<b>0.2571</b>	<b>0.1540</b>	<b>0.4111</b>	<b>0.0000</b>	<b>419.5286</b>	<b>419.5286</b>	<b>0.1357</b>	<b>0.0000</b>	<b>422.9207</b>

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**3.3 Grading - 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	0.0662	2.2273	0.4909	5.8800e-003	0.1289	6.9300e-003	0.1358	0.0354	6.6300e-003	0.0420	0.0000	578.0867	578.0867	0.0403	0.0000	579.0933
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	7.1100e-003	5.7300e-003	0.0634	1.7000e-004	0.0169	1.4000e-004	0.0170	4.4800e-003	1.3000e-004	4.6100e-003	0.0000	15.7288	15.7288	5.0000e-004	0.0000	15.7412
<b>Total</b>	<b>0.0733</b>	<b>2.2330</b>	<b>0.5543</b>	<b>6.0500e-003</b>	<b>0.1458</b>	<b>7.0700e-003</b>	<b>0.1528</b>	<b>0.0399</b>	<b>6.7600e-003</b>	<b>0.0466</b>	<b>0.0000</b>	<b>593.8155</b>	<b>593.8155</b>	<b>0.0408</b>	<b>0.0000</b>	<b>594.8345</b>

**3.4 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	0.0445	0.4029	0.3538	5.7000e-004		0.0235	0.0235		0.0221	0.0221	0.0000	48.6381	48.6381	0.0119	0.0000	48.9348
<b>Total</b>	<b>0.0445</b>	<b>0.4029</b>	<b>0.3538</b>	<b>5.7000e-004</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0221</b>	<b>0.0221</b>	<b>0.0000</b>	<b>48.6381</b>	<b>48.6381</b>	<b>0.0119</b>	<b>0.0000</b>	<b>48.9348</b>

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**3.4 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	0.0213	0.6372	0.1725	1.5100e-003	0.0370	2.9600e-003	0.0400	0.0107	2.8300e-003	0.0135	0.0000	146.0746	146.0746	9.2800e-003	0.0000	146.3067
Worker	0.1156	0.0932	1.0304	2.8300e-003	0.2743	2.3400e-003	0.2766	0.0729	2.1500e-003	0.0750	0.0000	255.6645	255.6645	8.0600e-003	0.0000	255.8659
<b>Total</b>	<b>0.1369</b>	<b>0.7304</b>	<b>1.2029</b>	<b>4.3400e-003</b>	<b>0.3113</b>	<b>5.3000e-003</b>	<b>0.3166</b>	<b>0.0835</b>	<b>4.9800e-003</b>	<b>0.0885</b>	<b>0.0000</b>	<b>401.7391</b>	<b>401.7391</b>	<b>0.0173</b>	<b>0.0000</b>	<b>402.1726</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	0.0445	0.4029	0.3538	5.7000e-004		0.0235	0.0235		0.0221	0.0221	0.0000	48.6380	48.6380	0.0119	0.0000	48.9347
<b>Total</b>	<b>0.0445</b>	<b>0.4029</b>	<b>0.3538</b>	<b>5.7000e-004</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0221</b>	<b>0.0221</b>	<b>0.0000</b>	<b>48.6380</b>	<b>48.6380</b>	<b>0.0119</b>	<b>0.0000</b>	<b>48.9347</b>

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**3.4 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	0.0213	0.6372	0.1725	1.5100e-003	0.0370	2.9600e-003	0.0400	0.0107	2.8300e-003	0.0135	0.0000	146.0746	146.0746	9.2800e-003	0.0000	146.3067
Worker	0.1156	0.0932	1.0304	2.8300e-003	0.2743	2.3400e-003	0.2766	0.0729	2.1500e-003	0.0750	0.0000	255.6645	255.6645	8.0600e-003	0.0000	255.8659
<b>Total</b>	<b>0.1369</b>	<b>0.7304</b>	<b>1.2029</b>	<b>4.3400e-003</b>	<b>0.3113</b>	<b>5.3000e-003</b>	<b>0.3166</b>	<b>0.0835</b>	<b>4.9800e-003</b>	<b>0.0885</b>	<b>0.0000</b>	<b>401.7391</b>	<b>401.7391</b>	<b>0.0173</b>	<b>0.0000</b>	<b>402.1726</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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2867</b>	<b>302.2867</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1099</b>

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**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	0.1135	3.6061	0.9777	9.2900e-003	0.2302	7.3500e-003	0.2375	0.0664	7.0300e-003	0.0735	0.0000	900.6985	900.6985	0.0553	0.0000	902.0797
Worker	0.6693	0.5211	5.8825	0.0170	1.7046	0.0141	1.7186	0.4527	0.0129	0.4657	0.0000	1,538.3198	1,538.3198	0.0453	0.0000	1,539.4515
<b>Total</b>	<b>0.7828</b>	<b>4.1272</b>	<b>6.8602</b>	<b>0.0263</b>	<b>1.9348</b>	<b>0.0214</b>	<b>1.9562</b>	<b>0.5192</b>	<b>0.0200</b>	<b>0.5391</b>	<b>0.0000</b>	<b>2,439.0183</b>	<b>2,439.0183</b>	<b>0.1005</b>	<b>0.0000</b>	<b>2,441.5312</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
<b>Total</b>	<b>0.2481</b>	<b>2.2749</b>	<b>2.1631</b>	<b>3.5100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>302.2863</b>	<b>302.2863</b>	<b>0.0729</b>	<b>0.0000</b>	<b>304.1095</b>

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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	0.1135	3.6061	0.9777	9.2900e-003	0.2302	7.3500e-003	0.2375	0.0664	7.0300e-003	0.0735	0.0000	900.6985	900.6985	0.0553	0.0000	902.0797
Worker	0.6693	0.5211	5.8825	0.0170	1.7046	0.0141	1.7186	0.4527	0.0129	0.4657	0.0000	1,538.3198	1,538.3198	0.0453	0.0000	1,539.4515
<b>Total</b>	<b>0.7828</b>	<b>4.1272</b>	<b>6.8602</b>	<b>0.0263</b>	<b>1.9348</b>	<b>0.0214</b>	<b>1.9562</b>	<b>0.5192</b>	<b>0.0200</b>	<b>0.5391</b>	<b>0.0000</b>	<b>2,439.0183</b>	<b>2,439.0183</b>	<b>0.1005</b>	<b>0.0000</b>	<b>2,441.5312</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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

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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	0.1061	3.4129	0.9215	9.1700e-003	0.2293	6.4000e-003	0.2357	0.0662	6.1200e-003	0.0723	0.0000	889.3668	889.3668	0.0531	0.0000	890.6948
Worker	0.6252	0.4689	5.3993	0.0164	1.6981	0.0136	1.7116	0.4510	0.0125	0.4635	0.0000	1,478.5583	1,478.5583	0.0407	0.0000	1,479.5762
<b>Total</b>	<b>0.7313</b>	<b>3.8818</b>	<b>6.3208</b>	<b>0.0255</b>	<b>1.9273</b>	<b>0.0200</b>	<b>1.9473</b>	<b>0.5172</b>	<b>0.0186</b>	<b>0.5358</b>	<b>0.0000</b>	<b>2,367.9250</b>	<b>2,367.9250</b>	<b>0.0938</b>	<b>0.0000</b>	<b>2,370.2710</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

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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	0.1061	3.4129	0.9215	9.1700e-003	0.2293	6.4000e-003	0.2357	0.0662	6.1200e-003	0.0723	0.0000	889.3668	889.3668	0.0531	0.0000	890.6948
Worker	0.6252	0.4689	5.3993	0.0164	1.6981	0.0136	1.7116	0.4510	0.0125	0.4635	0.0000	1,478.5583	1,478.5583	0.0407	0.0000	1,479.5762
<b>Total</b>	<b>0.7313</b>	<b>3.8818</b>	<b>6.3208</b>	<b>0.0255</b>	<b>1.9273</b>	<b>0.0200</b>	<b>1.9473</b>	<b>0.5172</b>	<b>0.0186</b>	<b>0.5358</b>	<b>0.0000</b>	<b>2,367.9250</b>	<b>2,367.9250</b>	<b>0.0938</b>	<b>0.0000</b>	<b>2,370.2710</b>

**3.5 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	4.3184					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1085	0.1397	2.3000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	19.6601	19.6601	1.2800e-003	0.0000	19.6921
<b>Total</b>	<b>4.3341</b>	<b>0.1085</b>	<b>0.1397</b>	<b>2.3000e-004</b>		<b>6.2900e-003</b>	<b>6.2900e-003</b>		<b>6.2900e-003</b>	<b>6.2900e-003</b>	<b>0.0000</b>	<b>19.6601</b>	<b>19.6601</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>19.6921</b>



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**3.5 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	0.0739	0.0555	0.6385	1.9300e-003	0.2008	1.6000e-003	0.2024	0.0533	1.4800e-003	0.0548	0.0000	174.8584	174.8584	4.8200e-003	0.0000	174.9788
<b>Total</b>	<b>0.0739</b>	<b>0.0555</b>	<b>0.6385</b>	<b>1.9300e-003</b>	<b>0.2008</b>	<b>1.6000e-003</b>	<b>0.2024</b>	<b>0.0533</b>	<b>1.4800e-003</b>	<b>0.0548</b>	<b>0.0000</b>	<b>174.8584</b>	<b>174.8584</b>	<b>4.8200e-003</b>	<b>0.0000</b>	<b>174.9788</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	4.3184					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1085	0.1397	2.3000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	19.6600	19.6600	1.2800e-003	0.0000	19.6920
<b>Total</b>	<b>4.3341</b>	<b>0.1085</b>	<b>0.1397</b>	<b>2.3000e-004</b>		<b>6.2900e-003</b>	<b>6.2900e-003</b>		<b>6.2900e-003</b>	<b>6.2900e-003</b>	<b>0.0000</b>	<b>19.6600</b>	<b>19.6600</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>19.6920</b>

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**3.5 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	0.0739	0.0555	0.6385	1.9300e-003	0.2008	1.6000e-003	0.2024	0.0533	1.4800e-003	0.0548	0.0000	174.8584	174.8584	4.8200e-003	0.0000	174.9788
<b>Total</b>	<b>0.0739</b>	<b>0.0555</b>	<b>0.6385</b>	<b>1.9300e-003</b>	<b>0.2008</b>	<b>1.6000e-003</b>	<b>0.2024</b>	<b>0.0533</b>	<b>1.4800e-003</b>	<b>0.0548</b>	<b>0.0000</b>	<b>174.8584</b>	<b>174.8584</b>	<b>4.8200e-003</b>	<b>0.0000</b>	<b>174.9788</b>

**3.6 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	0.0243	0.2448	0.3208	5.0000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0243</b>	<b>0.2448</b>	<b>0.3208</b>	<b>5.0000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>44.0606</b>	<b>44.0606</b>	<b>0.0143</b>	<b>0.0000</b>	<b>44.4169</b>

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**3.6 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	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
<b>Total</b>	<b>1.3300e-003</b>	<b>1.0000e-003</b>	<b>0.0115</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>3.0000e-005</b>	<b>3.6500e-003</b>	<b>9.6000e-004</b>	<b>3.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>3.1487</b>	<b>3.1487</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.1509</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	0.0243	0.2448	0.3208	5.0000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0243</b>	<b>0.2448</b>	<b>0.3208</b>	<b>5.0000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>44.0606</b>	<b>44.0606</b>	<b>0.0143</b>	<b>0.0000</b>	<b>44.4168</b>

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**3.6 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	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
<b>Total</b>	<b>1.3300e-003</b>	<b>1.0000e-003</b>	<b>0.0115</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>3.0000e-005</b>	<b>3.6500e-003</b>	<b>9.6000e-004</b>	<b>3.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>3.1487</b>	<b>3.1487</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.1509</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

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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	1.1557	5.8240	13.6432	0.0579	5.4753	0.0411	5.5164	1.4671	0.0381	1.5053	0.0000	5,377.4689	5,377.4689	0.2421	0.0000	5,383.5222
Unmitigated	1.3538	6.8483	18.2707	0.0808	7.8219	0.0564	7.8783	2.0959	0.0524	2.1483	0.0000	7,494.3885	7,494.3885	0.3255	0.0000	7,502.5257

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2899.40	9,907,690	6,935,383
Condo/Townhouse	3,302.40	2,925.72	2497.44	10,707,968	7,495,577
Enclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>6,201.80</b>	<b>5,825.12</b>	<b>5,396.84</b>	<b>20,615,658</b>	<b>14,430,961</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Condo/Townhouse	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,178.3671	3,178.3671	0.1312	0.0272	3,189.7378
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,433.7926	3,433.7926	0.1418	0.0293	3,446.0771
NaturalGas Mitigated	0.0872	0.7448	0.3169	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	862.5735	862.5735	0.0165	0.0158	867.6994
NaturalGas Unmitigated	0.0872	0.7448	0.3169	4.7500e-003		0.0602	0.0602		0.0602	0.0602	0.0000	862.5735	862.5735	0.0165	0.0158	867.6994

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.30091e+006	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197
Condo/Townhouse	8.8631e+006	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0872</b>	<b>0.7448</b>	<b>0.3170</b>	<b>4.7600e-003</b>		<b>0.0602</b>	<b>0.0602</b>		<b>0.0602</b>	<b>0.0602</b>	<b>0.0000</b>	<b>862.5735</b>	<b>862.5735</b>	<b>0.0165</b>	<b>0.0158</b>	<b>867.6994</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.30091e+006	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197
Condo/Townhouse	8.8631e+006	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0872</b>	<b>0.7448</b>	<b>0.3170</b>	<b>4.7600e-003</b>		<b>0.0602</b>	<b>0.0602</b>		<b>0.0602</b>	<b>0.0602</b>	<b>0.0000</b>	<b>862.5735</b>	<b>862.5735</b>	<b>0.0165</b>	<b>0.0158</b>	<b>867.6994</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.20625e+006	702.9594	0.0290	6.0000e-003	705.4742
Condo/Townhouse	2.60061e+006	828.6098	0.0342	7.0800e-003	831.5741
Enclosed Parking with Elevator	5.97017e+006	1,902.2234	0.0785	0.0163	1,909.0287
<b>Total</b>		<b>3,433.7926</b>	<b>0.1418</b>	<b>0.0293</b>	<b>3,446.0770</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.04738e+006	652.3377	0.0269	5.5700e-003	654.6714
Condo/Townhouse	2.40355e+006	765.8236	0.0316	6.5400e-003	768.5633
Enclosed Parking with Elevator	5.52444e+006	1,760.2059	0.0727	0.0150	1,766.5031
<b>Total</b>		<b>3,178.3671</b>	<b>0.1312</b>	<b>0.0272</b>	<b>3,189.7378</b>

**6.0 Area Detail**



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**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	5.7579	0.3242	11.0480	1.8400e-003		0.0768	0.0768		0.0768	0.0768	0.0000	247.2433	247.2433	0.0217	4.2000e-003	249.0380
Unmitigated	9.2099	0.4014	17.7085	0.0178		1.0739	1.0739		1.0739	1.0739	112.6984	234.5040	347.2024	0.3534	7.6500e-003	358.3161

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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	0.4318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.4753	0.2752	6.7447	0.0172		1.0131	1.0131		1.0131	1.0131	112.6984	216.5677	329.2661	0.3361	7.6500e-003	339.9478
Landscaping	0.3312	0.1262	10.9638	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	17.9363	17.9363	0.0173	0.0000	18.3683
<b>Total</b>	<b>9.2099</b>	<b>0.4014</b>	<b>17.7085</b>	<b>0.0178</b>		<b>1.0739</b>	<b>1.0739</b>		<b>1.0739</b>	<b>1.0739</b>	<b>112.6984</b>	<b>234.5040</b>	<b>347.2025</b>	<b>0.3534</b>	<b>7.6500e-003</b>	<b>358.3161</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.9717					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0232	0.1980	0.0843	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.3070	229.3070	4.4000e-003	4.2000e-003	230.6696
Landscaping	0.3312	0.1262	10.9638	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	17.9363	17.9363	0.0173	0.0000	18.3683
<b>Total</b>	<b>5.7578</b>	<b>0.3242</b>	<b>11.0481</b>	<b>1.8400e-003</b>		<b>0.0768</b>	<b>0.0768</b>		<b>0.0768</b>	<b>0.0768</b>	<b>0.0000</b>	<b>247.2433</b>	<b>247.2433</b>	<b>0.0217</b>	<b>4.2000e-003</b>	<b>249.0380</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	370.4006	1.8166	0.0456	429.3938
Unmitigated	463.0007	2.2708	0.0570	536.7423

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	35.5089 / 22.3861	237.8279	1.1664	0.0293	275.7065
Condo/Townhouse	33.6195 / 21.1949	225.1728	1.1044	0.0277	261.0358
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>463.0007</b>	<b>2.2708</b>	<b>0.0570</b>	<b>536.7423</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	28.4072 / 17.9089	190.2623	0.9331	0.0234	220.5652
Condo/Townhouse	26.8956 / 16.9559	180.1383	0.8835	0.0222	208.8287
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>370.4006</b>	<b>1.8166</b>	<b>0.0456</b>	<b>429.3938</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.7679	1.4637	0.0000	61.3615
Unmitigated	99.0718	5.8550	0.0000	245.4461

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	250.7	50.8898	3.0075	0.0000	126.0774
Condo/Townhouse	237.36	48.1819	2.8475	0.0000	119.3687
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>99.0718</b>	<b>5.8550</b>	<b>0.0000</b>	<b>245.4461</b>

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	62.675	12.7225	0.7519	0.0000	31.5194
Condo/Townhouse	59.34	12.0455	0.7119	0.0000	29.8422
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>24.7679</b>	<b>1.4638</b>	<b>0.0000</b>	<b>61.3615</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Annual

**11.0 Vegetation**

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## **Scenario 2 (Phase 1)**

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**The Villages at the Alhambra - Scenario 2 (Phase 1)**  
**Los Angeles-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
Enclosed Parking with Elevator	1,625.00	Space	2.00	650,000.00	0
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<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**

## The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

## Project Characteristics -

Land Use - Construction area is approximately 13 acres.

Construction Phase - Estimated construction schedule.

Grading - 60,000 cy soil export.

Demolition - 42,576 sf demo required.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	300.00	282.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	77.00

## The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	7/13/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	5/18/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	1/28/2020	1/30/2020
tblConstructionPhase	PhaseEndDate	3/24/2020	5/18/2020
tblConstructionPhase	PhaseEndDate	6/15/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	6/16/2021	3/2/2021
tblConstructionPhase	PhaseStartDate	3/25/2020	5/19/2020
tblConstructionPhase	PhaseStartDate	2/12/2020	1/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2021	5/18/2021
tblGrading	AcresOfGrading	192.50	13.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	14.62	2.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	WD_TR	5.81	6.40

## 2.0 Emissions Summary

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The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.2524	2.2524
2	4-1-2020	6-30-2020	2.1129	2.1129
3	7-1-2020	9-30-2020	1.4521	1.4521
4	10-1-2020	12-31-2020	1.4710	1.4710
5	1-1-2021	3-31-2021	1.9885	1.9885
6	4-1-2021	6-30-2021	3.0002	3.0002
		Highest	3.0002	3.0002

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	4.7714	0.1953	8.6200	8.6500e-003		0.5223	0.5223		0.5223	0.5223	54.8090	114.0568	168.8658	0.1719	3.7200e-003	174.2718
Energy	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	2,515.2078	2,515.2078	0.0934	0.0261	2,525.3246
Mobile	0.8452	3.9515	11.7184	0.0464	4.0638	0.0353	4.0991	1.0892	0.0328	1.1220	0.0000	4,292.5169	4,292.5169	0.2038	0.0000	4,297.6114
Waste						0.0000	0.0000		0.0000	0.0000	48.1819	0.0000	48.1819	2.8475	0.0000	119.3687
Water						0.0000	0.0000		0.0000	0.0000	10.6659	214.5069	225.1728	1.1044	0.0277	261.0358
<b>Total</b>	<b>5.6644</b>	<b>4.5552</b>	<b>20.5121</b>	<b>0.0577</b>	<b>4.0638</b>	<b>0.5906</b>	<b>4.6544</b>	<b>1.0892</b>	<b>0.5881</b>	<b>1.6773</b>	<b>113.6569</b>	<b>7,136.2884</b>	<b>7,249.9452</b>	<b>4.4209</b>	<b>0.0575</b>	<b>7,377.6123</b>

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-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	3.0926	0.1578	5.3808	9.0000e-004		0.0373	0.0373		0.0373	0.0373	0.0000	120.2523	120.2523	0.0106	2.0400e-003	121.1262
Energy	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	2,361.8136	2,361.8136	0.0871	0.0248	2,371.3817
Mobile	0.7255	3.3052	8.7838	0.0333	2.8511	0.0257	2.8768	0.7641	0.0239	0.7881	0.0000	3,081.3471	3,081.3471	0.1515	0.0000	3,085.1351
Waste						0.0000	0.0000		0.0000	0.0000	12.0455	0.0000	12.0455	0.7119	0.0000	29.8422
Water						0.0000	0.0000		0.0000	0.0000	8.5327	171.6055	180.1383	0.8835	0.0222	208.8287
<b>Total</b>	<b>3.8658</b>	<b>3.8714</b>	<b>14.3383</b>	<b>0.0368</b>	<b>2.8511</b>	<b>0.0961</b>	<b>2.9471</b>	<b>0.7641</b>	<b>0.0943</b>	<b>0.8584</b>	<b>20.5782</b>	<b>5,735.0186</b>	<b>5,755.5968</b>	<b>1.8445</b>	<b>0.0490</b>	<b>5,816.3138</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>31.75</b>	<b>15.01</b>	<b>30.10</b>	<b>36.18</b>	<b>29.84</b>	<b>83.73</b>	<b>36.68</b>	<b>29.84</b>	<b>83.97</b>	<b>48.82</b>	<b>81.89</b>	<b>19.64</b>	<b>20.61</b>	<b>58.28</b>	<b>14.84</b>	<b>21.16</b>

**3.0 Construction Detail**

**Construction Phase**

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/30/2020	5	22	
2	Grading	Grading	1/31/2020	5/18/2020	5	77	
3	Building Construction	Building Construction	5/19/2020	6/16/2021	5	282	
4	Paving	Paving	5/18/2021	6/16/2021	5	22	
5	Architectural Coating	Architectural Coating	3/2/2021	6/16/2021	5	77	

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

**Acres of Grading (Grading Phase): 13**

**Acres of Paving: 2**

**Residential Indoor: 1,481,688; Residential Outdoor: 493,896; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 39,000 (Architectural Coating – sqft)**

**OffRoad Equipment**



The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	194.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	645.00	162.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	129.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0210	0.0000	0.0210	3.1700e-003	0.0000	3.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.3652	0.2393	4.3000e-004		0.0183	0.0183		0.0170	0.0170	0.0000	37.3985	37.3985	0.0106	0.0000	37.6624
<b>Total</b>	<b>0.0364</b>	<b>0.3652</b>	<b>0.2393</b>	<b>4.3000e-004</b>	<b>0.0210</b>	<b>0.0183</b>	<b>0.0392</b>	<b>3.1700e-003</b>	<b>0.0170</b>	<b>0.0201</b>	<b>0.0000</b>	<b>37.3985</b>	<b>37.3985</b>	<b>0.0106</b>	<b>0.0000</b>	<b>37.6624</b>

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**3.2 Demolition - 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	8.6000e-004	0.0288	6.3500e-003	8.0000e-005	1.6700e-003	9.0000e-005	1.7600e-003	4.6000e-004	9.0000e-005	5.4000e-004	0.0000	7.4766	7.4766	5.2000e-004	0.0000	7.4896
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	7.6000e-004	6.1000e-004	6.7900e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.6852	1.6852	5.0000e-005	0.0000	1.6866
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0294</b>	<b>0.0131</b>	<b>1.0000e-004</b>	<b>3.4800e-003</b>	<b>1.1000e-004</b>	<b>3.5800e-003</b>	<b>9.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>9.1618</b>	<b>9.1618</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>9.1762</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					8.1700e-003	0.0000	8.1700e-003	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.3652	0.2393	4.3000e-004		0.0183	0.0183		0.0170	0.0170	0.0000	37.3984	37.3984	0.0106	0.0000	37.6624
<b>Total</b>	<b>0.0364</b>	<b>0.3652</b>	<b>0.2393</b>	<b>4.3000e-004</b>	<b>8.1700e-003</b>	<b>0.0183</b>	<b>0.0264</b>	<b>1.2400e-003</b>	<b>0.0170</b>	<b>0.0182</b>	<b>0.0000</b>	<b>37.3984</b>	<b>37.3984</b>	<b>0.0106</b>	<b>0.0000</b>	<b>37.6624</b>

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**3.2 Demolition - 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	8.6000e-004	0.0288	6.3500e-003	8.0000e-005	1.6700e-003	9.0000e-005	1.7600e-003	4.6000e-004	9.0000e-005	5.4000e-004	0.0000	7.4766	7.4766	5.2000e-004	0.0000	7.4896
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	7.6000e-004	6.1000e-004	6.7900e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.6852	1.6852	5.0000e-005	0.0000	1.6866
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0294</b>	<b>0.0131</b>	<b>1.0000e-004</b>	<b>3.4800e-003</b>	<b>1.1000e-004</b>	<b>3.5800e-003</b>	<b>9.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>9.1618</b>	<b>9.1618</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>9.1762</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2421	0.0000	0.2421	0.1287	0.0000	0.1287	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1713	1.9326	1.2304	2.3900e-003		0.0837	0.0837		0.0770	0.0770	0.0000	209.7645	209.7645	0.0678	0.0000	211.4606
<b>Total</b>	<b>0.1713</b>	<b>1.9326</b>	<b>1.2304</b>	<b>2.3900e-003</b>	<b>0.2421</b>	<b>0.0837</b>	<b>0.3258</b>	<b>0.1287</b>	<b>0.0770</b>	<b>0.2057</b>	<b>0.0000</b>	<b>209.7645</b>	<b>209.7645</b>	<b>0.0678</b>	<b>0.0000</b>	<b>211.4606</b>

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**3.3 Grading - 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	0.0331	1.1136	0.2455	2.9400e-003	0.0645	3.4600e-003	0.0679	0.0177	3.3100e-003	0.0210	0.0000	289.0433	289.0433	0.0201	0.0000	289.5466
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5500e-003	2.8700e-003	0.0317	9.0000e-005	8.4400e-003	7.0000e-005	8.5100e-003	2.2400e-003	7.0000e-005	2.3100e-003	0.0000	7.8644	7.8644	2.5000e-004	0.0000	7.8706
<b>Total</b>	<b>0.0366</b>	<b>1.1165</b>	<b>0.2772</b>	<b>3.0300e-003</b>	<b>0.0729</b>	<b>3.5300e-003</b>	<b>0.0764</b>	<b>0.0199</b>	<b>3.3800e-003</b>	<b>0.0233</b>	<b>0.0000</b>	<b>296.9077</b>	<b>296.9077</b>	<b>0.0204</b>	<b>0.0000</b>	<b>297.4172</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					0.0944	0.0000	0.0944	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1713	1.9326	1.2304	2.3900e-003		0.0837	0.0837		0.0770	0.0770	0.0000	209.7643	209.7643	0.0678	0.0000	211.4603
<b>Total</b>	<b>0.1713</b>	<b>1.9326</b>	<b>1.2304</b>	<b>2.3900e-003</b>	<b>0.0944</b>	<b>0.0837</b>	<b>0.1781</b>	<b>0.0502</b>	<b>0.0770</b>	<b>0.1272</b>	<b>0.0000</b>	<b>209.7643</b>	<b>209.7643</b>	<b>0.0678</b>	<b>0.0000</b>	<b>211.4603</b>

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**3.3 Grading - 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	0.0331	1.1136	0.2455	2.9400e-003	0.0645	3.4600e-003	0.0679	0.0177	3.3100e-003	0.0210	0.0000	289.0433	289.0433	0.0201	0.0000	289.5466
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5500e-003	2.8700e-003	0.0317	9.0000e-005	8.4400e-003	7.0000e-005	8.5100e-003	2.2400e-003	7.0000e-005	2.3100e-003	0.0000	7.8644	7.8644	2.5000e-004	0.0000	7.8706
<b>Total</b>	<b>0.0366</b>	<b>1.1165</b>	<b>0.2772</b>	<b>3.0300e-003</b>	<b>0.0729</b>	<b>3.5300e-003</b>	<b>0.0764</b>	<b>0.0199</b>	<b>3.3800e-003</b>	<b>0.0233</b>	<b>0.0000</b>	<b>296.9077</b>	<b>296.9077</b>	<b>0.0204</b>	<b>0.0000</b>	<b>297.4172</b>

**3.4 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	0.1728	1.5637	1.3732	2.1900e-003		0.0910	0.0910		0.0856	0.0856	0.0000	188.7621	188.7621	0.0461	0.0000	189.9134
<b>Total</b>	<b>0.1728</b>	<b>1.5637</b>	<b>1.3732</b>	<b>2.1900e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>188.7621</b>	<b>188.7621</b>	<b>0.0461</b>	<b>0.0000</b>	<b>189.9134</b>

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**3.4 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	0.0479	1.4307	0.3873	3.3900e-003	0.0832	6.6500e-003	0.0898	0.0240	6.3700e-003	0.0304	0.0000	327.9971	327.9971	0.0208	0.0000	328.5182
Worker	0.2427	0.1957	2.1639	5.9400e-003	0.5760	4.9100e-003	0.5810	0.1530	4.5300e-003	0.1575	0.0000	536.8985	536.8985	0.0169	0.0000	537.3214
<b>Total</b>	<b>0.2905</b>	<b>1.6264</b>	<b>2.5512</b>	<b>9.3300e-003</b>	<b>0.6592</b>	<b>0.0116</b>	<b>0.6708</b>	<b>0.1770</b>	<b>0.0109</b>	<b>0.1879</b>	<b>0.0000</b>	<b>864.8956</b>	<b>864.8956</b>	<b>0.0378</b>	<b>0.0000</b>	<b>865.8396</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	0.1728	1.5637	1.3732	2.1900e-003		0.0910	0.0910		0.0856	0.0856	0.0000	188.7619	188.7619	0.0461	0.0000	189.9132
<b>Total</b>	<b>0.1728</b>	<b>1.5637</b>	<b>1.3732</b>	<b>2.1900e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>188.7619</b>	<b>188.7619</b>	<b>0.0461</b>	<b>0.0000</b>	<b>189.9132</b>

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**3.4 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	0.0479	1.4307	0.3873	3.3900e-003	0.0832	6.6500e-003	0.0898	0.0240	6.3700e-003	0.0304	0.0000	327.9971	327.9971	0.0208	0.0000	328.5182
Worker	0.2427	0.1957	2.1639	5.9400e-003	0.5760	4.9100e-003	0.5810	0.1530	4.5300e-003	0.1575	0.0000	536.8985	536.8985	0.0169	0.0000	537.3214
<b>Total</b>	<b>0.2905</b>	<b>1.6264</b>	<b>2.5512</b>	<b>9.3300e-003</b>	<b>0.6592</b>	<b>0.0116</b>	<b>0.6708</b>	<b>0.1770</b>	<b>0.0109</b>	<b>0.1879</b>	<b>0.0000</b>	<b>864.8956</b>	<b>864.8956</b>	<b>0.0378</b>	<b>0.0000</b>	<b>865.8396</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	0.1131	1.0372	0.9862	1.6000e-003		0.0570	0.0570		0.0536	0.0536	0.0000	137.8242	137.8242	0.0333	0.0000	138.6555
<b>Total</b>	<b>0.1131</b>	<b>1.0372</b>	<b>0.9862</b>	<b>1.6000e-003</b>		<b>0.0570</b>	<b>0.0570</b>		<b>0.0536</b>	<b>0.0536</b>	<b>0.0000</b>	<b>137.8242</b>	<b>137.8242</b>	<b>0.0333</b>	<b>0.0000</b>	<b>138.6555</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	0.0299	0.9513	0.2579	2.4500e-003	0.0607	1.9400e-003	0.0627	0.0175	1.8500e-003	0.0194	0.0000	237.5981	237.5981	0.0146	0.0000	237.9624
Worker	0.1651	0.1286	1.4513	4.2000e-003	0.4205	3.4700e-003	0.4240	0.1117	3.1900e-003	0.1149	0.0000	379.5216	379.5216	0.0112	0.0000	379.8008
<b>Total</b>	<b>0.1951</b>	<b>1.0798</b>	<b>1.7092</b>	<b>6.6500e-003</b>	<b>0.4813</b>	<b>5.4100e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>5.0400e-003</b>	<b>0.1343</b>	<b>0.0000</b>	<b>617.1197</b>	<b>617.1197</b>	<b>0.0257</b>	<b>0.0000</b>	<b>617.7632</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	0.1131	1.0372	0.9862	1.6000e-003		0.0570	0.0570		0.0536	0.0536	0.0000	137.8240	137.8240	0.0333	0.0000	138.6553
<b>Total</b>	<b>0.1131</b>	<b>1.0372</b>	<b>0.9862</b>	<b>1.6000e-003</b>		<b>0.0570</b>	<b>0.0570</b>		<b>0.0536</b>	<b>0.0536</b>	<b>0.0000</b>	<b>137.8240</b>	<b>137.8240</b>	<b>0.0333</b>	<b>0.0000</b>	<b>138.6553</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	0.0299	0.9513	0.2579	2.4500e-003	0.0607	1.9400e-003	0.0627	0.0175	1.8500e-003	0.0194	0.0000	237.5981	237.5981	0.0146	0.0000	237.9624
Worker	0.1651	0.1286	1.4513	4.2000e-003	0.4205	3.4700e-003	0.4240	0.1117	3.1900e-003	0.1149	0.0000	379.5216	379.5216	0.0112	0.0000	379.8008
<b>Total</b>	<b>0.1951</b>	<b>1.0798</b>	<b>1.7092</b>	<b>6.6500e-003</b>	<b>0.4813</b>	<b>5.4100e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>5.0400e-003</b>	<b>0.1343</b>	<b>0.0000</b>	<b>617.1197</b>	<b>617.1197</b>	<b>0.0257</b>	<b>0.0000</b>	<b>617.7632</b>

**3.5 Paving - 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	0.0138	0.1421	0.1612	2.5000e-004		7.4500e-003	7.4500e-003		6.8600e-003	6.8600e-003	0.0000	22.0258	22.0258	7.1200e-003	0.0000	22.2039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0138</b>	<b>0.1421</b>	<b>0.1612</b>	<b>2.5000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>6.8600e-003</b>	<b>6.8600e-003</b>	<b>0.0000</b>	<b>22.0258</b>	<b>22.0258</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>22.2039</b>

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**3.5 Paving - 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	7.1000e-004	5.5000e-004	6.2400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.6317	1.6317	5.0000e-005	0.0000	1.6329
<b>Total</b>	<b>7.1000e-004</b>	<b>5.5000e-004</b>	<b>6.2400e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6317</b>	<b>1.6317</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6329</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	0.0138	0.1421	0.1612	2.5000e-004		7.4500e-003	7.4500e-003		6.8600e-003	6.8600e-003	0.0000	22.0258	22.0258	7.1200e-003	0.0000	22.2039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0138</b>	<b>0.1421</b>	<b>0.1612</b>	<b>2.5000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>6.8600e-003</b>	<b>6.8600e-003</b>	<b>0.0000</b>	<b>22.0258</b>	<b>22.0258</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>22.2039</b>

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**3.5 Paving - 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	7.1000e-004	5.5000e-004	6.2400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.6317	1.6317	5.0000e-005	0.0000	1.6329
<b>Total</b>	<b>7.1000e-004</b>	<b>5.5000e-004</b>	<b>6.2400e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6317</b>	<b>1.6317</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6329</b>

**3.6 Architectural Coating - 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					
Archit. Coating	2.3344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4300e-003	0.0588	0.0700	1.1000e-004		3.6200e-003	3.6200e-003		3.6200e-003	3.6200e-003	0.0000	9.8300	9.8300	6.7000e-004	0.0000	9.8469
<b>Total</b>	<b>2.3428</b>	<b>0.0588</b>	<b>0.0700</b>	<b>1.1000e-004</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>9.8300</b>	<b>9.8300</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>9.8469</b>

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**3.6 Architectural Coating - 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	0.0214	0.0166	0.1878	5.4000e-004	0.0544	4.5000e-004	0.0549	0.0145	4.1000e-004	0.0149	0.0000	49.1146	49.1146	1.4500e-003	0.0000	49.1507
<b>Total</b>	<b>0.0214</b>	<b>0.0166</b>	<b>0.1878</b>	<b>5.4000e-004</b>	<b>0.0544</b>	<b>4.5000e-004</b>	<b>0.0549</b>	<b>0.0145</b>	<b>4.1000e-004</b>	<b>0.0149</b>	<b>0.0000</b>	<b>49.1146</b>	<b>49.1146</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>49.1507</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	2.3344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4300e-003	0.0588	0.0700	1.1000e-004		3.6200e-003	3.6200e-003		3.6200e-003	3.6200e-003	0.0000	9.8300	9.8300	6.7000e-004	0.0000	9.8469
<b>Total</b>	<b>2.3428</b>	<b>0.0588</b>	<b>0.0700</b>	<b>1.1000e-004</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>		<b>3.6200e-003</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>9.8300</b>	<b>9.8300</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>9.8469</b>

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**3.6 Architectural Coating - 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	0.0214	0.0166	0.1878	5.4000e-004	0.0544	4.5000e-004	0.0549	0.0145	4.1000e-004	0.0149	0.0000	49.1146	49.1146	1.4500e-003	0.0000	49.1507
<b>Total</b>	<b>0.0214</b>	<b>0.0166</b>	<b>0.1878</b>	<b>5.4000e-004</b>	<b>0.0544</b>	<b>4.5000e-004</b>	<b>0.0549</b>	<b>0.0145</b>	<b>4.1000e-004</b>	<b>0.0149</b>	<b>0.0000</b>	<b>49.1146</b>	<b>49.1146</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>49.1507</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.7255	3.3052	8.7838	0.0333	2.8511	0.0257	2.8768	0.7641	0.0239	0.7881	0.0000	3,081.347 1	3,081.347 1	0.1515	0.0000	3,085.135 1
Unmitigated	0.8452	3.9515	11.7184	0.0464	4.0638	0.0353	4.0991	1.0892	0.0328	1.1220	0.0000	4,292.516 9	4,292.516 9	0.2038	0.0000	4,297.611 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	3,302.40	2,925.72	2497.44	10,707,968	7,512,485
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,302.40	2,925.72	2,497.44	10,707,968	7,512,485

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,888.8446	1,888.8446	0.0780	0.0161	1,895.6020
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,042.2388	2,042.2388	0.0843	0.0174	2,049.5449
NaturalGas Mitigated	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797
NaturalGas Unmitigated	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797



The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**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					
Condo/Townhouse	8.8631e+006	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0478</b>	<b>0.4084</b>	<b>0.1738</b>	<b>2.6100e-003</b>		<b>0.0330</b>	<b>0.0330</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>472.9690</b>	<b>472.9690</b>	<b>9.0700e-003</b>	<b>8.6700e-003</b>	<b>475.7797</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	8.8631e+006	0.0478	0.4084	0.1738	2.6100e-003		0.0330	0.0330		0.0330	0.0330	0.0000	472.9690	472.9690	9.0700e-003	8.6700e-003	475.7797
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0478</b>	<b>0.4084</b>	<b>0.1738</b>	<b>2.6100e-003</b>		<b>0.0330</b>	<b>0.0330</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>472.9690</b>	<b>472.9690</b>	<b>9.0700e-003</b>	<b>8.6700e-003</b>	<b>475.7797</b>

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.60061e+006	828.6098	0.0342	7.0800e-003	831.5741
Enclosed Parking with Elevator	3.809e+006	1,213.6290	0.0501	0.0104	1,217.9708
<b>Total</b>		<b>2,042.2388</b>	<b>0.0843</b>	<b>0.0175</b>	<b>2,049.5449</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.40355e+006	765.8236	0.0316	6.5400e-003	768.5633
Enclosed Parking with Elevator	3.52463e+006	1,123.0210	0.0464	9.5900e-003	1,127.0387
<b>Total</b>		<b>1,888.8446</b>	<b>0.0780</b>	<b>0.0161</b>	<b>1,895.6020</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	3.0926	0.1578	5.3808	9.0000e-004		0.0373	0.0373		0.0373	0.0373	0.0000	120.2523	120.2523	0.0106	2.0400e-003	121.1262
Unmitigated	4.7714	0.1953	8.6200	8.6500e-003		0.5223	0.5223		0.5223	0.5223	54.8090	114.0568	168.8658	0.1719	3.7200e-003	174.2718

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**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	0.2334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.6901	0.1338	3.2802	8.3700e-003		0.4927	0.4927		0.4927	0.4927	54.8090	105.3242	160.1332	0.1635	3.7200e-003	165.3280
Landscaping	0.1619	0.0615	5.3398	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	8.7326	8.7326	8.4500e-003	0.0000	8.9438
<b>Total</b>	<b>4.7714</b>	<b>0.1953</b>	<b>8.6200</b>	<b>8.6500e-003</b>		<b>0.5223</b>	<b>0.5223</b>		<b>0.5223</b>	<b>0.5223</b>	<b>54.8090</b>	<b>114.0568</b>	<b>168.8658</b>	<b>0.1719</b>	<b>3.7200e-003</b>	<b>174.2718</b>

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0113	0.0963	0.0410	6.1000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	111.5197	111.5197	2.1400e-003	2.0400e-003	112.1824
Landscaping	0.1619	0.0615	5.3398	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	8.7326	8.7326	8.4500e-003	0.0000	8.9438
<b>Total</b>	<b>3.0926</b>	<b>0.1578</b>	<b>5.3808</b>	<b>8.9000e-004</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>120.2523</b>	<b>120.2523</b>	<b>0.0106</b>	<b>2.0400e-003</b>	<b>121.1262</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	180.1383	0.8835	0.0222	208.8287
Unmitigated	225.1728	1.1044	0.0277	261.0358

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	33.6195 / 21.1949	225.1728	1.1044	0.0277	261.0358
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>225.1728</b>	<b>1.1044</b>	<b>0.0277</b>	<b>261.0358</b>

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	26.8956 / 16.9559	180.1383	0.8835	0.0222	208.8287
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>180.1383</b>	<b>0.8835</b>	<b>0.0222</b>	<b>208.8287</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.0455	0.7119	0.0000	29.8422
Unmitigated	48.1819	2.8475	0.0000	119.3687

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	237.36	48.1819	2.8475	0.0000	119.3687
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>48.1819</b>	<b>2.8475</b>	<b>0.0000</b>	<b>119.3687</b>



The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	59.34	12.0455	0.7119	0.0000	29.8422
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>12.0455</b>	<b>0.7119</b>	<b>0.0000</b>	<b>29.8422</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Annual

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## **Scenario 2 (Phase 2)**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**The Villages at the Alhambra - Scenario 2 (Phase 2)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	922.00	Space	1.00	368,800.00	0
----- Apartments Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2028
<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**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Construction area is approximately 8 acres.

Construction Phase - Estimated construction schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Grading equipment.

Off-road Equipment -

Demolition - 61,666 sf demo required.

Grading - 60,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

## The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	192.50	8.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LotAcreage	8.30	1.00
tblLandUse	LotAcreage	14.34	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32

## 2.0 Emissions Summary

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The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-17-2021	9-16-2021	1.6399	1.6399
2	9-17-2021	12-16-2021	2.3222	2.3222
3	12-17-2021	3-16-2022	1.0667	1.0667
4	3-17-2022	6-16-2022	1.0634	1.0634
5	6-17-2022	9-16-2022	1.0998	1.0998
6	9-17-2022	9-30-2022	0.4309	0.4309
		Highest	2.3222	2.3222

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	4.4388	0.2061	9.0913	9.1400e-003		0.5516	0.5516		0.5516	0.5516	57.8894	120.4472	178.3366	0.1815	3.9300e-003	184.0447
Energy	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	1,781.1583	1,781.1583	0.0649	0.0190	1,788.4518
Mobile	0.6506	3.2912	8.7807	0.0388	3.7591	0.0271	3.7862	1.0073	0.0252	1.0324	0.0000	3,601.7322	3,601.7322	0.1564	0.0000	3,605.6429
Waste						0.0000	0.0000		0.0000	0.0000	50.8898	0.0000	50.8898	3.0075	0.0000	126.0774
Water						0.0000	0.0000		0.0000	0.0000	11.2654	226.5625	237.8279	1.1664	0.0293	275.7065
<b>Total</b>	<b>5.1288</b>	<b>3.8338</b>	<b>18.0152</b>	<b>0.0501</b>	<b>3.7591</b>	<b>0.6059</b>	<b>4.3650</b>	<b>1.0073</b>	<b>0.6040</b>	<b>1.6112</b>	<b>120.0446</b>	<b>5,729.9003</b>	<b>5,849.9449</b>	<b>4.5768</b>	<b>0.0522</b>	<b>5,979.9234</b>



The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-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	2.6656	0.1665	5.6701	9.5000e-004		0.0394	0.0394		0.0394	0.0394	0.0000	126.9910	126.9910	0.0111	2.1600e-003	127.9122
Energy	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	1,679.1270	1,679.1270	0.0607	0.0182	1,686.0555
Mobile	0.5554	2.7990	6.5568	0.0278	2.6314	0.0197	2.6511	0.7051	0.0183	0.7234	0.0000	2,584.3607	2,584.3607	0.1164	0.0000	2,587.2699
Waste						0.0000	0.0000		0.0000	0.0000	12.7225	0.0000	12.7225	0.7519	0.0000	31.5194
Water						0.0000	0.0000		0.0000	0.0000	9.0123	181.2500	190.2623	0.9331	0.0234	220.5652
<b>Total</b>	<b>3.2604</b>	<b>3.3019</b>	<b>12.3701</b>	<b>0.0309</b>	<b>2.6314</b>	<b>0.0864</b>	<b>2.7178</b>	<b>0.7051</b>	<b>0.0849</b>	<b>0.7900</b>	<b>21.7347</b>	<b>4,571.7287</b>	<b>4,593.4634</b>	<b>1.8732</b>	<b>0.0437</b>	<b>4,653.3221</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>36.43</b>	<b>13.87</b>	<b>31.34</b>	<b>38.26</b>	<b>30.00</b>	<b>85.75</b>	<b>37.74</b>	<b>30.00</b>	<b>85.94</b>	<b>50.97</b>	<b>81.89</b>	<b>20.21</b>	<b>21.48</b>	<b>59.07</b>	<b>16.28</b>	<b>22.18</b>

**3.0 Construction Detail**

**Construction Phase**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2021	8/17/2021	5	44	
2	Grading	Grading	8/18/2021	12/2/2021	5	77	
3	Building Construction	Building Construction	12/3/2021	12/30/2022	5	281	
4	Architectural Coating	Architectural Coating	9/15/2022	12/30/2022	5	77	
5	Paving	Paving	12/1/2022	12/30/2022	5	22	

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

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 1**

**Residential Indoor: 1,267,512; Residential Outdoor: 422,504; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 22,128 (Architectural Coating – sqft)**

**OffRoad Equipment**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	547.00	119.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	109.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					0.0304	0.0000	0.0304	4.6000e-003	0.0000	4.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0696	0.6917	0.4744	8.5000e-004		0.0341	0.0341		0.0317	0.0317	0.0000	74.8017	74.8017	0.0211	0.0000	75.3281
<b>Total</b>	<b>0.0696</b>	<b>0.6917</b>	<b>0.4744</b>	<b>8.5000e-004</b>	<b>0.0304</b>	<b>0.0341</b>	<b>0.0645</b>	<b>4.6000e-003</b>	<b>0.0317</b>	<b>0.0363</b>	<b>0.0000</b>	<b>74.8017</b>	<b>74.8017</b>	<b>0.0211</b>	<b>0.0000</b>	<b>75.3281</b>

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**3.2 Demolition - 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	1.1800e-003	0.0388	9.0400e-003	1.1000e-004	2.4100e-003	1.2000e-004	2.5200e-003	6.6000e-004	1.1000e-004	7.7000e-004	0.0000	10.6722	10.6722	7.4000e-004	0.0000	10.6907
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	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0399</b>	<b>0.0215</b>	<b>1.5000e-004</b>	<b>6.0300e-003</b>	<b>1.5000e-004</b>	<b>6.1700e-003</b>	<b>1.6200e-003</b>	<b>1.4000e-004</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>13.9356</b>	<b>13.9356</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>13.9565</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					0.0118	0.0000	0.0118	1.7900e-003	0.0000	1.7900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0696	0.6917	0.4744	8.5000e-004		0.0341	0.0341		0.0317	0.0317	0.0000	74.8016	74.8016	0.0211	0.0000	75.3280
<b>Total</b>	<b>0.0696</b>	<b>0.6917</b>	<b>0.4744</b>	<b>8.5000e-004</b>	<b>0.0118</b>	<b>0.0341</b>	<b>0.0460</b>	<b>1.7900e-003</b>	<b>0.0317</b>	<b>0.0335</b>	<b>0.0000</b>	<b>74.8016</b>	<b>74.8016</b>	<b>0.0211</b>	<b>0.0000</b>	<b>75.3280</b>

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**3.2 Demolition - 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	1.1800e-003	0.0388	9.0400e-003	1.1000e-004	2.4100e-003	1.2000e-004	2.5200e-003	6.6000e-004	1.1000e-004	7.7000e-004	0.0000	10.6722	10.6722	7.4000e-004	0.0000	10.6907
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	1.4200e-003	1.1100e-003	0.0125	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.2634	3.2634	1.0000e-004	0.0000	3.2658
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0399</b>	<b>0.0215</b>	<b>1.5000e-004</b>	<b>6.0300e-003</b>	<b>1.5000e-004</b>	<b>6.1700e-003</b>	<b>1.6200e-003</b>	<b>1.4000e-004</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>13.9356</b>	<b>13.9356</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>13.9565</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					0.2395	0.0000	0.2395	0.1284	0.0000	0.1284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1614	1.7864	1.1888	2.3900e-003		0.0764	0.0764		0.0703	0.0703	0.0000	209.8057	209.8057	0.0679	0.0000	211.5021
<b>Total</b>	<b>0.1614</b>	<b>1.7864</b>	<b>1.1888</b>	<b>2.3900e-003</b>	<b>0.2395</b>	<b>0.0764</b>	<b>0.3159</b>	<b>0.1284</b>	<b>0.0703</b>	<b>0.1987</b>	<b>0.0000</b>	<b>209.8057</b>	<b>209.8057</b>	<b>0.0679</b>	<b>0.0000</b>	<b>211.5021</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	0.0316	1.0381	0.2421	2.9000e-003	0.0645	3.1100e-003	0.0676	0.0177	2.9700e-003	0.0207	0.0000	285.8611	285.8611	0.0198	0.0000	286.3571
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.5800e-003	0.0291	8.0000e-005	8.4400e-003	7.0000e-005	8.5100e-003	2.2400e-003	6.0000e-005	2.3100e-003	0.0000	7.6147	7.6147	2.2000e-004	0.0000	7.6203
<b>Total</b>	<b>0.0349</b>	<b>1.0407</b>	<b>0.2712</b>	<b>2.9800e-003</b>	<b>0.0729</b>	<b>3.1800e-003</b>	<b>0.0761</b>	<b>0.0199</b>	<b>3.0300e-003</b>	<b>0.0230</b>	<b>0.0000</b>	<b>293.4757</b>	<b>293.4757</b>	<b>0.0201</b>	<b>0.0000</b>	<b>293.9774</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					0.0934	0.0000	0.0934	0.0501	0.0000	0.0501	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1614	1.7864	1.1888	2.3900e-003		0.0764	0.0764		0.0703	0.0703	0.0000	209.8054	209.8054	0.0679	0.0000	211.5018
<b>Total</b>	<b>0.1614</b>	<b>1.7864</b>	<b>1.1888</b>	<b>2.3900e-003</b>	<b>0.0934</b>	<b>0.0764</b>	<b>0.1698</b>	<b>0.0501</b>	<b>0.0703</b>	<b>0.1204</b>	<b>0.0000</b>	<b>209.8054</b>	<b>209.8054</b>	<b>0.0679</b>	<b>0.0000</b>	<b>211.5018</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	0.0316	1.0381	0.2421	2.9000e-003	0.0645	3.1100e-003	0.0676	0.0177	2.9700e-003	0.0207	0.0000	285.8611	285.8611	0.0198	0.0000	286.3571
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.5800e-003	0.0291	8.0000e-005	8.4400e-003	7.0000e-005	8.5100e-003	2.2400e-003	6.0000e-005	2.3100e-003	0.0000	7.6147	7.6147	2.2000e-004	0.0000	7.6203
<b>Total</b>	<b>0.0349</b>	<b>1.0407</b>	<b>0.2712</b>	<b>2.9800e-003</b>	<b>0.0729</b>	<b>3.1800e-003</b>	<b>0.0761</b>	<b>0.0199</b>	<b>3.0300e-003</b>	<b>0.0230</b>	<b>0.0000</b>	<b>293.4757</b>	<b>293.4757</b>	<b>0.0201</b>	<b>0.0000</b>	<b>293.9774</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	0.0200	0.1830	0.1740	2.8000e-004		0.0101	0.0101		9.4600e-003	9.4600e-003	0.0000	24.3219	24.3219	5.8700e-003	0.0000	24.4686
<b>Total</b>	<b>0.0200</b>	<b>0.1830</b>	<b>0.1740</b>	<b>2.8000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>	<b>0.0000</b>	<b>24.3219</b>	<b>24.3219</b>	<b>5.8700e-003</b>	<b>0.0000</b>	<b>24.4686</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	3.8800e-003	0.1233	0.0334	3.2000e-004	7.8700e-003	2.5000e-004	8.1200e-003	2.2700e-003	2.4000e-004	2.5100e-003	0.0000	30.7998	30.7998	1.8900e-003	0.0000	30.8470
Worker	0.0247	0.0192	0.2172	6.3000e-004	0.0629	5.2000e-004	0.0635	0.0167	4.8000e-004	0.0172	0.0000	56.7985	56.7985	1.6700e-003	0.0000	56.8402
<b>Total</b>	<b>0.0286</b>	<b>0.1426</b>	<b>0.2506</b>	<b>9.5000e-004</b>	<b>0.0708</b>	<b>7.7000e-004</b>	<b>0.0716</b>	<b>0.0190</b>	<b>7.2000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>87.5982</b>	<b>87.5982</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>87.6872</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	0.0200	0.1830	0.1740	2.8000e-004		0.0101	0.0101		9.4600e-003	9.4600e-003	0.0000	24.3219	24.3219	5.8700e-003	0.0000	24.4686
<b>Total</b>	<b>0.0200</b>	<b>0.1830</b>	<b>0.1740</b>	<b>2.8000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>	<b>0.0000</b>	<b>24.3219</b>	<b>24.3219</b>	<b>5.8700e-003</b>	<b>0.0000</b>	<b>24.4686</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	3.8800e-003	0.1233	0.0334	3.2000e-004	7.8700e-003	2.5000e-004	8.1200e-003	2.2700e-003	2.4000e-004	2.5100e-003	0.0000	30.7998	30.7998	1.8900e-003	0.0000	30.8470
Worker	0.0247	0.0192	0.2172	6.3000e-004	0.0629	5.2000e-004	0.0635	0.0167	4.8000e-004	0.0172	0.0000	56.7985	56.7985	1.6700e-003	0.0000	56.8402
<b>Total</b>	<b>0.0286</b>	<b>0.1426</b>	<b>0.2506</b>	<b>9.5000e-004</b>	<b>0.0708</b>	<b>7.7000e-004</b>	<b>0.0716</b>	<b>0.0190</b>	<b>7.2000e-004</b>	<b>0.0197</b>	<b>0.0000</b>	<b>87.5982</b>	<b>87.5982</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>87.6872</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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

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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	0.0451	1.4505	0.3917	3.9000e-003	0.0975	2.7200e-003	0.1002	0.0281	2.6000e-003	0.0307	0.0000	377.9809	377.9809	0.0226	0.0000	378.5453
Worker	0.2869	0.2152	2.4777	7.5100e-003	0.7792	6.2200e-003	0.7855	0.2070	5.7300e-003	0.2127	0.0000	678.4995	678.4995	0.0187	0.0000	678.9666
<b>Total</b>	<b>0.3320</b>	<b>1.6656</b>	<b>2.8693</b>	<b>0.0114</b>	<b>0.8767</b>	<b>8.9400e-003</b>	<b>0.8856</b>	<b>0.2351</b>	<b>8.3300e-003</b>	<b>0.2434</b>	<b>0.0000</b>	<b>1,056.4803</b>	<b>1,056.4803</b>	<b>0.0413</b>	<b>0.0000</b>	<b>1,057.5119</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

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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	0.0451	1.4505	0.3917	3.9000e-003	0.0975	2.7200e-003	0.1002	0.0281	2.6000e-003	0.0307	0.0000	377.9809	377.9809	0.0226	0.0000	378.5453
Worker	0.2869	0.2152	2.4777	7.5100e-003	0.7792	6.2200e-003	0.7855	0.2070	5.7300e-003	0.2127	0.0000	678.4995	678.4995	0.0187	0.0000	678.9666
<b>Total</b>	<b>0.3320</b>	<b>1.6656</b>	<b>2.8693</b>	<b>0.0114</b>	<b>0.8767</b>	<b>8.9400e-003</b>	<b>0.8856</b>	<b>0.2351</b>	<b>8.3300e-003</b>	<b>0.2434</b>	<b>0.0000</b>	<b>1,056.4803</b>	<b>1,056.4803</b>	<b>0.0413</b>	<b>0.0000</b>	<b>1,057.5119</b>

**3.5 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	1.9840					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8700e-003	0.0542	0.0698	1.1000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	9.8300	9.8300	6.4000e-004	0.0000	9.8460
<b>Total</b>	<b>1.9918</b>	<b>0.0542</b>	<b>0.0698</b>	<b>1.1000e-004</b>		<b>3.1500e-003</b>	<b>3.1500e-003</b>		<b>3.1500e-003</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>9.8300</b>	<b>9.8300</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>9.8460</b>

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**3.5 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	0.0169	0.0127	0.1462	4.4000e-004	0.0460	3.7000e-004	0.0464	0.0122	3.4000e-004	0.0126	0.0000	40.0411	40.0411	1.1000e-003	0.0000	40.0687
<b>Total</b>	<b>0.0169</b>	<b>0.0127</b>	<b>0.1462</b>	<b>4.4000e-004</b>	<b>0.0460</b>	<b>3.7000e-004</b>	<b>0.0464</b>	<b>0.0122</b>	<b>3.4000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>40.0411</b>	<b>40.0411</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>40.0687</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	1.9840					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8700e-003	0.0542	0.0698	1.1000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	9.8300	9.8300	6.4000e-004	0.0000	9.8460
<b>Total</b>	<b>1.9918</b>	<b>0.0542</b>	<b>0.0698</b>	<b>1.1000e-004</b>		<b>3.1500e-003</b>	<b>3.1500e-003</b>		<b>3.1500e-003</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>9.8300</b>	<b>9.8300</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>9.8460</b>

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**3.5 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	0.0169	0.0127	0.1462	4.4000e-004	0.0460	3.7000e-004	0.0464	0.0122	3.4000e-004	0.0126	0.0000	40.0411	40.0411	1.1000e-003	0.0000	40.0687
<b>Total</b>	<b>0.0169</b>	<b>0.0127</b>	<b>0.1462</b>	<b>4.4000e-004</b>	<b>0.0460</b>	<b>3.7000e-004</b>	<b>0.0464</b>	<b>0.0122</b>	<b>3.4000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>40.0411</b>	<b>40.0411</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>40.0687</b>

**3.6 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	0.0121	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.1224</b>	<b>0.1604</b>	<b>2.5000e-004</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>22.0303</b>	<b>22.0303</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2084</b>

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**3.6 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	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754
<b>Total</b>	<b>6.7000e-004</b>	<b>5.0000e-004</b>	<b>5.7500e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5744</b>	<b>1.5744</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.5754</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	0.0121	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.1224</b>	<b>0.1604</b>	<b>2.5000e-004</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>22.0303</b>	<b>22.0303</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2084</b>

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**3.6 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	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754
<b>Total</b>	<b>6.7000e-004</b>	<b>5.0000e-004</b>	<b>5.7500e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5744</b>	<b>1.5744</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.5754</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density



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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	0.5554	2.7990	6.5568	0.0278	2.6314	0.0197	2.6511	0.7051	0.0183	0.7234	0.0000	2,584.3607	2,584.3607	0.1164	0.0000	2,587.2699
Unmitigated	0.6506	3.2912	8.7807	0.0388	3.7591	0.0271	3.7862	1.0073	0.0252	1.0324	0.0000	3,601.7322	3,601.7322	0.1564	0.0000	3,605.6429

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,289.5225	1,289.5225	0.0532	0.0110	1,294.1358
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,391.5538	1,391.5538	0.0575	0.0119	1,396.5321
NaturalGas Mitigated	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197
NaturalGas Unmitigated	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.30091e+006	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0394</b>	<b>0.3364</b>	<b>0.1432</b>	<b>2.1500e-003</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0272</b>	<b>0.0272</b>	<b>0.0000</b>	<b>389.6045</b>	<b>389.6045</b>	<b>7.4700e-003</b>	<b>7.1400e-003</b>	<b>391.9197</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.30091e+006	0.0394	0.3364	0.1432	2.1500e-003		0.0272	0.0272		0.0272	0.0272	0.0000	389.6045	389.6045	7.4700e-003	7.1400e-003	391.9197
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0394</b>	<b>0.3364</b>	<b>0.1432</b>	<b>2.1500e-003</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0272</b>	<b>0.0272</b>	<b>0.0000</b>	<b>389.6045</b>	<b>389.6045</b>	<b>7.4700e-003</b>	<b>7.1400e-003</b>	<b>391.9197</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.20625e+006	702.9594	0.0290	6.0000e-003	705.4742
Enclosed Parking with Elevator	2.16117e+006	688.5944	0.0284	5.8800e-003	691.0579
<b>Total</b>		<b>1,391.5538</b>	<b>0.0575</b>	<b>0.0119</b>	<b>1,396.5321</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.04738e+006	652.3377	0.0269	5.5700e-003	654.6714
Enclosed Parking with Elevator	1.99982e+006	637.1849	0.0263	5.4400e-003	639.4644
<b>Total</b>		<b>1,289.5225</b>	<b>0.0532</b>	<b>0.0110</b>	<b>1,294.1358</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	2.6656	0.1665	5.6701	9.5000e-004		0.0394	0.0394		0.0394	0.0394	0.0000	126.9910	126.9910	0.0111	2.1600e-003	127.9122
Unmitigated	4.4388	0.2061	9.0913	9.1400e-003		0.5516	0.5516		0.5516	0.5516	57.8894	120.4472	178.3366	0.1815	3.9300e-003	184.0447

## The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**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	0.1984					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2857					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.7851	0.1414	3.4645	8.8400e-003		0.5204	0.5204		0.5204	0.5204	57.8894	111.2435	169.1329	0.1726	3.9300e-003	174.6197
Landscaping	0.1697	0.0648	5.6268	3.0000e-004		0.0312	0.0312		0.0312	0.0312	0.0000	9.2037	9.2037	8.8500e-003	0.0000	9.4250
<b>Total</b>	<b>4.4388</b>	<b>0.2061</b>	<b>9.0913</b>	<b>9.1400e-003</b>		<b>0.5516</b>	<b>0.5516</b>		<b>0.5516</b>	<b>0.5516</b>	<b>57.8894</b>	<b>120.4472</b>	<b>178.3366</b>	<b>0.1815</b>	<b>3.9300e-003</b>	<b>184.0447</b>

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1984					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2857					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0119	0.1017	0.0433	6.5000e-004		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	117.7873	117.7873	2.2600e-003	2.1600e-003	118.4872
Landscaping	0.1697	0.0648	5.6268	3.0000e-004		0.0312	0.0312		0.0312	0.0312	0.0000	9.2037	9.2037	8.8500e-003	0.0000	9.4250
<b>Total</b>	<b>2.6656</b>	<b>0.1665</b>	<b>5.6701</b>	<b>9.5000e-004</b>		<b>0.0394</b>	<b>0.0394</b>		<b>0.0394</b>	<b>0.0394</b>	<b>0.0000</b>	<b>126.9910</b>	<b>126.9910</b>	<b>0.0111</b>	<b>2.1600e-003</b>	<b>127.9122</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	190.2623	0.9331	0.0234	220.5652
Unmitigated	237.8279	1.1664	0.0293	275.7065

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	35.5089 / 22.3861	237.8279	1.1664	0.0293	275.7065
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>237.8279</b>	<b>1.1664</b>	<b>0.0293</b>	<b>275.7065</b>



The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	28.4072 / 17.9089	190.2623	0.9331	0.0234	220.5652
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>190.2623</b>	<b>0.9331</b>	<b>0.0234</b>	<b>220.5652</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.7225	0.7519	0.0000	31.5194
Unmitigated	50.8898	3.0075	0.0000	126.0774

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	250.7	50.8898	3.0075	0.0000	126.0774
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>50.8898</b>	<b>3.0075</b>	<b>0.0000</b>	<b>126.0774</b>

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	62.675	12.7225	0.7519	0.0000	31.5194
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>12.7225</b>	<b>0.7519</b>	<b>0.0000</b>	<b>31.5194</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Annual

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## SCAQMD Proposed Tier 4 Performance Standard\*

x-value	y-value
Year (Operational Year)	Efficiency Target (MTCO <sub>2</sub> e)
2020	4.8
2035	3.0
<b>2028</b>	<b>3.8</b>

\* [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf)